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# THE AMERICAN ASSOCIATION OF BLOOD BANKS ANNUAL REPORT 1990

Established in 1947, the American Association of Blood Banks is a professional, nonprofit, scientific and administrative association for individuals and institutions engaged in the many facets of blood banking and transfusion medicine. It is the only organization devoted exclusively to blood banking and blood transfusion services. AABB member facilities are responsible for collecting nearly half of the nation's blood supply and transfusing more than 80 percent. More than 2,400 institutions (community and hospital blood banks and hospital transfusion services) and 8,000 individuals are members of the AABB, including physicians, scientists, medical technologists, administrators, donor recruiters, nurses and public-spirited citizens working with blood bankers. Members are located in all 50 states and 40 foreign countries. The AABB's active membership gives direction to the Association through its elected Board of Directors and more than 50 committees of volunteer professionals.

The mission of the AABB is to provide leadership in blood procurement, processing, distribution and all aspects of transfusion medicine and related fields in order to promote the highest standards of care and service to patients, donors, other health care professionals and the general public.

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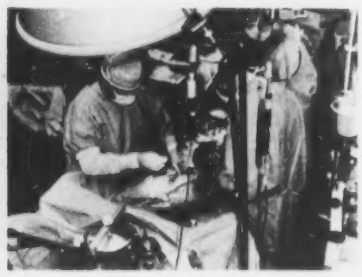


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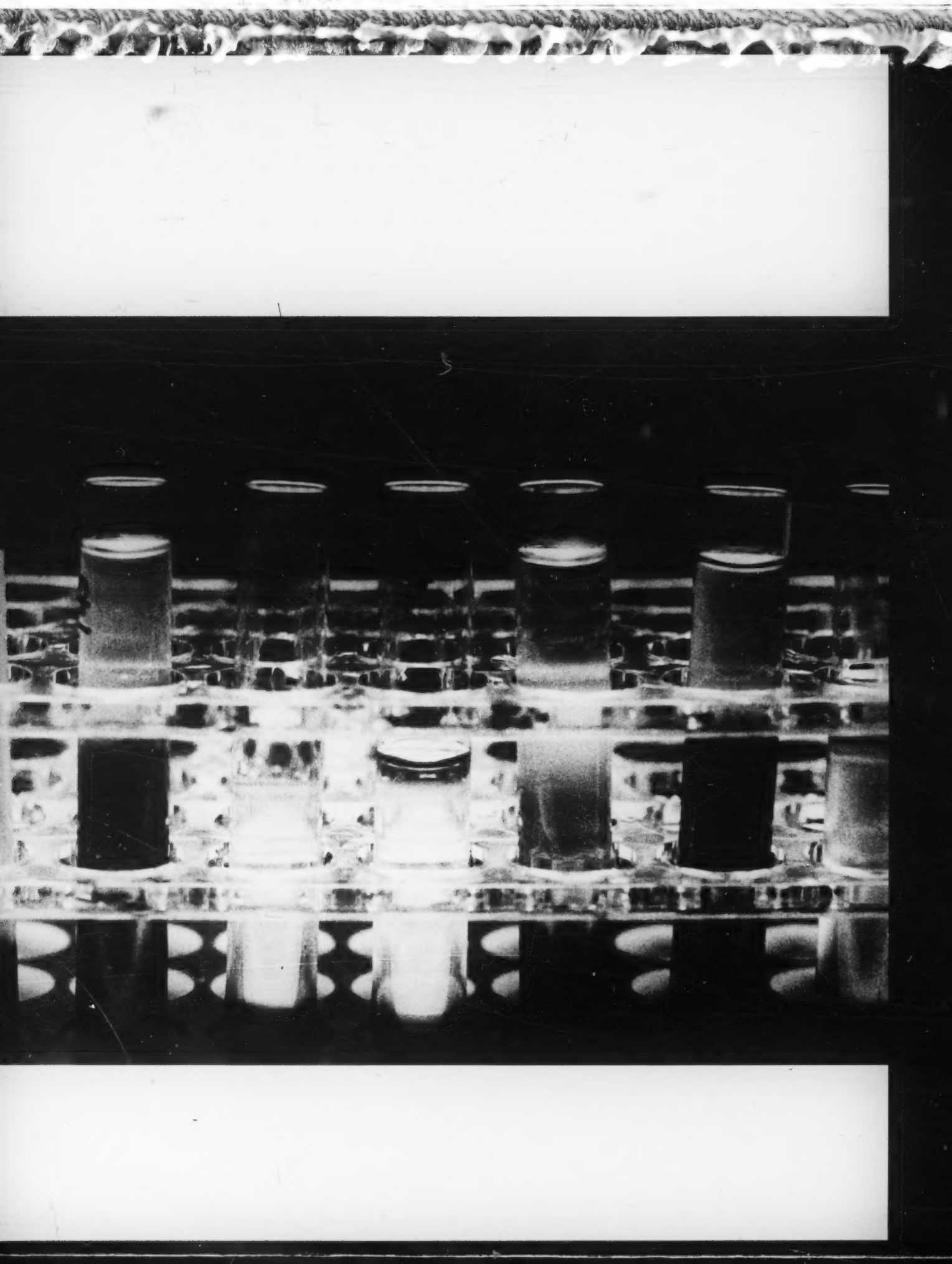


# PRESIDENT'S REPORT



It has now become commonplace for your president to report that it has been an eventful year. I suspect that in the future we will continue to assume a larger part of the national agenda than we would like, with continued attention from regulators, Congress and the media. This will require our Association to provide increasing leadership and support to the membership. Therefore, your Board of Directors has worked hard this year to make the Association stronger and more effective. While we have tightly controlled costs, we feel that greater resources must be committed to the Association's activities. We seek the understanding of our membership as dues increases are utilized to provide more services and to represent the profession more effectively in the public arena.

During the past year, we once again found that this organization is absolutely unique in two areas: the selfless dedication of our donors and the extraordinary spirit and voluntary support from our individual and institutional members. Few, if any, professional or trade associations enjoy the contributions of time, effort and expertise from volunteers that we do, and few, if any, have the outstanding staff that we do. Clearly, this enormous contribution by our volunteers accounts for the tremendous productivity of the Association.

The Association year began with the Institute of Medicine conference on blood supply safety. The conference crystallized many of the issues that faced us from numerous vantage points. While it did not result in a new mechanism to review tests before they are introduced, the conference began an important dialogue and created ideas for dealing with this issue in the future. The National Blood Resource Education Program, under the aegis of the National Heart, Lung and Blood Institute, has continued to investigate these issues.

During the past year, the Food and Drug Administration (FDA) utilized its licensing procedure to clarify appropriate usage of tests that were introduced. This allowed the licensure of tests for HIV antigen and HIV-2 antibody, while specifying that these tests were not for use in routine screening of blood donors. We applaud the FDA's procedures which resulted in the careful delineation of indications for newly-licensed tests. Unfortunately and more recently, the FDA has recommended revised guidelines for donor screening without adequate public review. The need for continued and increased interaction with the FDA on behalf of our members is clear. To address this need we have established a new FDA liaison committee. Hopefully this will improve communications between the two organizations and will allow us to have an appropriate input into FDA decision-making processes.

Lawsuits and attendant legal liability continue to be a problem for our members. The American Red Cross, the Council of Community Blood Centers and the AABB are working on an alternative dispute resolution mechanism and exploring once again a captive insurance company. We recognize the need to help our members with continuing serious problems in this area. At the same time, solutions will be difficult to find.

The Association has undertaken an expanded public relations and public information campaign to provide clear and accurate information for the general public and the press. This campaign began with an op-ed piece in *The Washington Post* which I authored, and the op-ed has subsequently been reprinted by many other newspapers around the country. Among the other activities of our PR program initiated in 1990 were expanded media relations efforts, video news releases produced for local television and a significant amount of press coverage at our Joint Congress with the International Society of Blood Transfusion (ISBT) in Los Angeles.

To ensure that patients needing transfusions can make an appropriate informed consent decision, we produced a physician's resource kit on informed consent for transfusion. This kit features a videotape that explains to patients the risks and benefits of blood transfusion clearly and accurately. To attract patient attention to this important information, the videotape contains an introduction by former President Ronald Reagan. We believe this will be one of our most important contributions to improved clinical care in the area of transfusion medicine.

Included in our legislative and public relations efforts will be providing information to Congress about the need to expand and continue the transfusion medicine research program of the National Heart, Lung and Blood Institute. To accomplish this and our other public policy objectives, we ask that our membership be in closer contact with their representatives in Congress, and visit them when in Washington on Association and other business.

The transfusion medicine community as a whole has had a busy and productive year improving blood safety. The single greatest step was the introduction of HCV antibody testing. The anti-HCV test should substantially reduce the risk of non-A, non-B hepatitis in transfused patients and adds an important specific test to the processing of blood for transfusion. Unfortunately, a major research effort concluded last year found that the HIV antigen test would not improve blood safety. However, this carefully constructed study organized by the AABB became a model for investigation in blood safety. This was acknowledged by the publication of the results of this research in *The New England Journal of Medicine.*

Finally, in the area of transfusion medicine research, we must not forget the outstanding work of our Foundation and the achievements of the researchers that it is able to fund. In order to ensure the continued success of this Foundation, it has been structured as a charitable trust and continues under the name National Blood Foundation, with Hayle Randolph as its able chairman.

Our continuing programs, such as the *Standards,* the *Technical Manual,* the Inspection and Accreditation Program and the National Blood Exchange, operate in exemplary fashion. We tend to take these programs for granted, without realizing the enormous volunteer and staff contributions which makes them so successful. The continuing education program that produces our workshops and large portions of our Annual Meeting was given a six year accreditation by the Accreditation Council for Continuing Medical Education, one of a few selected organizations in the country to have received this acknowledgement of excellence.

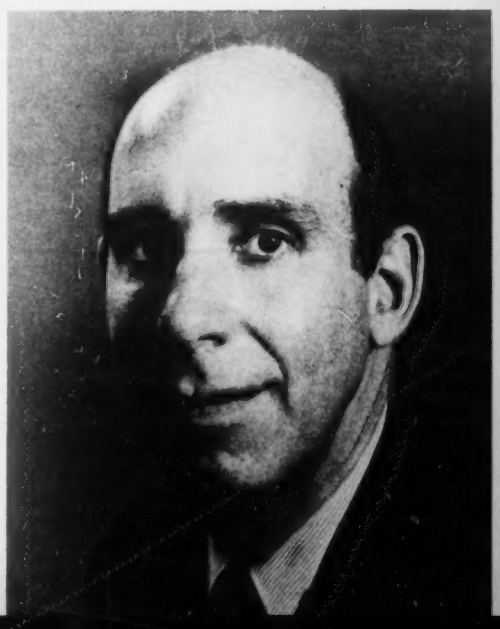
Our Annual Meeting this year established new records in virtually every area. We were fortunate to be able to meet in conjunction with the ISBT as a Joint Congress. With the increased international contribution, we had many unique seminars and symposia, as well as the increased expertise available from the international membership. We thank the ISBT for honoring us with this Joint Congress and making it possible for us to offer such an outstanding educational opportunity to our membership on the North American continent. New records were set in total attendance (over 8,000 attendees), exhibits, workshop attendees, seminar attendees, participation in the banquet, book sales and new memberships. The Los Angeles meeting indeed was a memorable and outstanding one, not only in terms of the records it set, but in the high quality of the program.

During this year, two major changes occurred in the life of our Association. First, Gilbert Clark resigned after thirteen years with the organization, ten of which were spent as our executive director. He made a major contribution to the American Association of Blood Banks, which grew in virtually every category during his tenure and developed an absolutely outstanding staff. His departure led to an extensive and intensive search process during which we redefined the position into one that is a functioning CEO and spokesperson for the organization. Joel Solomon, PhD, chief of the transfusion sciences division of the FDA and a career officer in the United States Public Health Service, accepted the new position. We look forward to his new leadership.

Finally, we embarked on a potential purchase of a building that is located in Bethesda, Maryland, near the National Library of Medicine and the National Institutes of Health. Most of the work has been completed to consummate this purchase, which will become a reality during the 1991 Association year. This purchase will free us from the continually rising Washington, DC, area rents and allow us to conserve our assets.

It has been an honor to serve as president of the Association during the past year. Words are inadequate to express my appreciation to the staff, the volunteers and the Board of Directors. We have worked hard to meet the challenges of the past and plan for an even better future. Hopefully, our long-range plan developed during this Association year will serve us in the future as we seek to provide more services and benefits for patients and donors, and enrich the profession of transfusion medicine and blood banking.

Toby L. Simon, MD
President, 1989-1990



# *Promoting Professional Achievement*

**MEMBERSHIP** Association membership continued to grow in 1990. During the year, 1,457 new members joined the AABB, bringing total membership to a record high of 10,954. Individual membership increased to 8,638, the largest number of individual members in AABB's history. Individual AABB members included 2,066 physicians, 91 resident physicians, 6,264 non-physicians, 8 life members, 208 emeritus members and one honorary member.

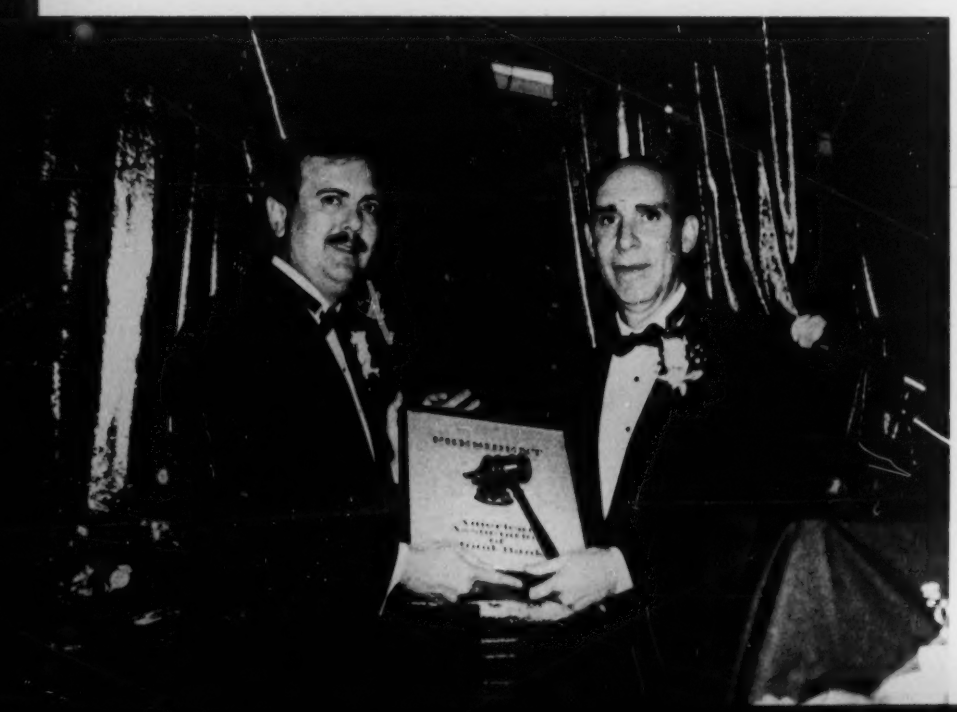
A total of 2,316 facilities were members of the AABB. AABB's institutional members included 163 community blood centers, 606 hospital blood banks, 1,487 hospital transfusion services, 42 associate institutional members and 18 international associate institutional members.

**TRANSFUSION** The AABB's scholarly journal, *Transfusion,* continued to take steps in its evolution. The January 1990 issue was the first one produced by the Association, rather than by a contracted publisher. Through this level of control, the AABB is better able to maintain its commitment to timely publication of research in transfusion medicine. Under the leadership of Editor Jeffrey McCullough, MD, editorial changes were made as well. The number of associate editors was increased from five to six, which has enabled a more rapid completion of the peer-review process. Also, during 1990, there was an increase in the number of administrative papers submitted and accepted. The continued evolution of the journal *Transfusion* has maintained the AABB as the foremost publisher in the world of new information regarding transfusion medicine.

**ELECTION** A new Board of Directors was chosen at the 43rd Annual Business Meeting in Los Angeles, California, on November 13, 1990. Donald D. Doddridge, named president elect in 1989, assumed the office of president. E. Shannon Cooper, MD, JD, was chosen president elect and will assume the office of president at the 44th AABB Annual Meeting in Baltimore, Maryland, in November 1991. Other officers elected to the executive committee were: Arthur J. Silvergleid, MD, San Bernardino, California, vice president; Jane A. Mackey, Topeka, Kansas, secretary; and Bobby A. Grigsby, Houston, Texas, treasurer. Toby L. Simon, MD, became immediate past president.

Elected as district directors were: Jay E. Menitove, MD, Milwaukee, Wisconsin, North Central District Director; Barbara Zimmerman, MT(ASCP)SBB, Greenville, South Carolina, Southeast District Director; Estre Culotta, MHS, MT(ASCP) SBB, New Orleans, Louisiana, South Central District Director; Jerry Kolins, MD, Escondido, California, Pacific District Director; and Robert L. Travis, MS, MT(ASCP)SBB, Newark, Delaware, Northeast District Director. Susan L. Wilkinson, MS, MT(ASCP)SBB, Cincinnati, Ohio, was also elected as Scientific Section Representative.

Also on the AABB Board of Directors, but not subject to re-election this year, are: Edward L. Snyder, MD, Director, Northeast District; Charles H. Wallas, MD, Director, Southeast District; W. John Judd, FIMLS, MIBiol, Director, North Central District; Margie B. Peschel, MD, Director, South Central District; Roger K. Svoboda, MBA, MS, MT (ASCP)SBB, Director, Pacific District; and John L. Drury, Administrative Section Representative.



*AABB President Toby L. Simon, MD, passes the gavel and president's plaque to incoming president Donald Doddridge at the 1990 ISBT/AABB Joint Congress banquet in Los Angeles, California.*

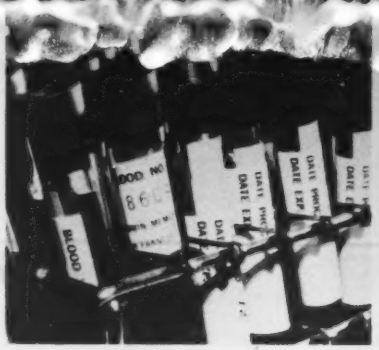
**AWARDS** Each year at the Annual Meeting, the AABB presents Memorial Awards to individuals for their scientific discoveries and outstanding service in the field of blood banking and transfusion medicine.

Robert C. Gallo, MD, and Luc Montagnier, MD, recognized leaders in the field of human retrovirology and internationally acclaimed as co-discoverers of the AIDS virus, were honored with the 1990 Karl Landsteiner Memorial Award.

The John Elliott Memorial Award was presented to Jacqueline D. Miller, MD, for her contributions to the AABB as an Inspection and Accreditation area chairman, former president of the Association and service on numerous ad hoc committees.

W. Laurence Marsh, PhD, FRC Path, FIBiol, FIMLS, received the Morten

# FOR 1990



*AABB President Toby L. Simon, MD, presents the 1990 Karl Landsteiner Memorial Award to Robert C. Gallo, MD, and Luc Montagnier, MD.*

Grove-Rasmussen Memorial Award for his pivotal and far-reaching contributions to the field of immunohematology for over 30 years. Most noteworthy are his numerous studies which elucidated the Lutheran, the I and especially the Kell blood group systems.

The Ivor Dunsford Memorial Award was presented to John Case, FIMLS, for his practical contributions to the science of immunohematology and for outstanding contributions to the educational programs and publications of the Association.

Sherrill Slichter, MD, the 1990 Emily Cooley Memorial Award recipient, was honored for her dedication to research, particularly in the area of platelet transfusion therapy, and her unswerving support of the developing discipline of transfusion medicine.

The 1990 Outstanding Administrator was Kenneth N. Edwards, recognized for his leadership and his outstanding contributions to both the Blood Bank of Delaware and the AABB.

Marianne Timm, of the Gulf Coast Regional Blood Center, was honored with the 1990 Donor Resources Achievement Award for her outstanding leadership and successful programs in the area of donor recruitment.

Fann Harding, PhD, Jeffrey McCullough, MD, and Jo Ann Hoffman received Distinguished Service Awards. Dr. Harding was recognized for her leadership in initiating and establishing the Transfusion Medicine Academic Awards program and maintaining it as a major force in transforming transfusion medicine. Dr. McCullough was recognized for his leadership in establishing the National Marrow Donor Program and serving as its distinguished principal investigator in its formative stages with resultant benefits to patients and donors. Ms. Hoffman was honored for her 10 years service to the AABB, including her term as acting executive director.

At the 1990 ISBT/AABB Joint Congress, the AABB was privileged in honoring one individual and eight organizations with Awards of Merit for their significant contributions to blood banking on a local level.

Buell Duncan, Jr., of Orlando, Florida, received an Award of Merit in the individual category. His influence and ability to motivate major community business leaders was utilized in a program to educate these leaders on the services of Central Florida Blood Bank.

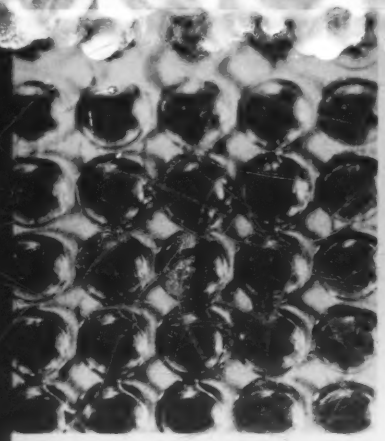
WITI-TV, Milwaukee, Wisconsin, was honored in the television category for coverage when a local 18-year-old woman was stricken with aplastic anemia and needed a bone marrow transplant to survive. Through WITI-TV's promotional efforts, over $150,000 was raised to pay for the typing of over 2,000 potential donors for the young woman and for thousands of others in need. They were nominated by the Blood Center of Southeast Wisconsin.

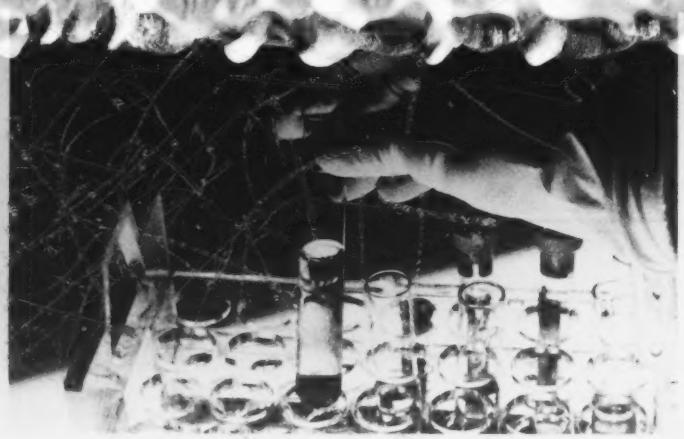
KLOS-FM, Los Angeles, California, received an Award of Merit in the radio category for its extraordinary efforts and contributions to the Los Angeles listening area by increasing public awareness about the need for blood. They sponsored a successful annual blood drive, and later volunteered their entire on-air time following the northern California earthquake to make pleas for donations of blood. They were nominated by the American Red Cross, Los Angeles/Orange Counties Region.

Tinker Air Force Base, Oklahoma, was honored in the group category. As Oklahoma's largest employer, their eight donor groups provided more than 7,100 units of blood, representing almost ten percent of the total donations in Oklahoma City in 1989. They were nominated by the Oklahoma Blood Institute in Oklahoma City.

Wells Fargo Bank, San Francisco, California, received an Award of Merit in the group category. A sponsor of corporate blood drives since World War II, they have consistently ranked as the number one contributor of blood donations in the San Francisco corporate community, averaging 1,500 blood donations annually for the past 15 years. They were nominated by the Irwin Memorial Blood Centers in San Francisco.

*Autologous intraoperative blood salvage.*





National Institutes of Health, Department of Transfusion Medicine, Bethesda, Maryland; Richard T. Orescovic, MT(ASCP) SBB, Hoxworth Blood Center, University of Cincinnati Medical Center, Cincinnati, Ohio; and Lori B. Taylor, MT (ASCP) SBB, National Institutes of Health, Department of Transfusion Medicine, Bethesda Maryland.

*Graphic perspective of a tray used to do human lymphocyte antigen (HLA) typing.*

Centralia High School, Centralia, Illinois, received an Award of Merit in the educational facility category. With approximately 1,000 students in a community of 15,000, they held their first blood drive in 1982 and produced 220 pints, and by 1989, doubled that amount to 444. Their success is due to 75 percent student participation and their level of enthusiasm, commitment, and creativity with administrative and community support. They were nominated by the American Red Cross/Illinois Regional Blood Services, St. Louis, Missouri.

The University of California, Davis, California, was honored with an Award of Merit in the educational facility category for their outstanding participation in and sponsorship of campus blood drives. Each year, the 18,000 students and 10,000 staff continue to increase their donations. They were nominated by the Sacramento Blood Center.

The *San Antonio Light*, San Antonio, Texas, received an Award of Merit in the newspaper category for its timely news articles and educational information regarding blood banking. They were nominated by the South Texas Regional Blood Bank, San Antonio.

Flutie Enterprises, Plantation, Florida, received an Award of Merit in the other media category for donating advertising space for Broward Community Blood Center's community awareness campaign.

The Presidential Awards are given annually to recognize organizations and individuals who support voluntary blood donations nationwide. In 1990, the Air Force Logistics Command, headquartered at Wright Patterson Air Force Base, Dayton, Ohio, was honored for their nearly 50 years of commitment to the support of voluntary blood donations. The AFLC donated over 26,000 units of blood in 1989, representing 26 percent participation by national personnel. They were nominated by the following blood centers: Community Blood Center, Dayton, Ohio; IHC Blood Services at McKay-Dee Hospital, Ogden, Utah; South Texas Regional Blood Bank, San Antonio, Texas; Sacramento Medical Foundation, Sacramento, California; American Red Cross Blood Services, Atlanta Region, Atlanta, Georgia; and the Oklahoma Blood Institute, Oklahoma City, Oklahoma.

Three outstanding Specialist in Blood Banking (SBB) students were selected this year to receive scholarship awards. These awards, intended to encourage and assist with educational pursuits in the field of immunohematology, have been generously sponsored by the Fenwal Division of Baxter Healthcare Corporation for 22 years. The following students were presented scholarships for their award winning essays: Linda L. Cardine, MT (ASCP) SBB,

**CERTIFICATION** The AABB is actively involved in encouraging and providing the means for the education of new blood bank professionals. To do so, it offers certification through its Technologist in Blood Banking (BB) and Specialist in Blood Banking (SBB) designations. In 1990, 150 SBBs (a total of 3,786 to date) and 126 BBs (a total of 1,678 to date) were certified.

There are 27 facilities in the United States that offer accredited SBB education programs, endorsed by the AABB and the Committee on Allied Health Education and Accreditation of the American Medical Association.

**ACCREDITATION** The AABB Inspection and Accreditation (I&A) Program has over 2,400 institutional participants. Facilities are inspected and accredited every two years. In 1990, 1,161 participants in the I&A program

# *Anticipating Tomorrow's*

were accredited. Overseas participants increased to 50. In 1990, 140 inspections were successfully coordinated with College of American Pathologists (CAP) inspections.

**POLICIES** **Irradiated Blood.** On November 6, 1989 the American Association of Blood Banks advised its member institutions that to reduce the risk of transfusion induced graft-versus-host disease (GVHD), cellular components from first degree family member donors should be irradiated with at least 1,500 rad (15Gy) to inactivate white cells.

**HCV Testing.** On February 8, 1990 the American Association of Blood Banks, the American Red Cross (ARC) and the Council of Community Blood Centers (CCBC) issued "Guidelines for Planning the Implementation of Anti-HCV Testing of Blood and Components for Transfusion." The guidelines explained that blood centers should "implement anti-HCV testing, including testing of complete inventory, as rapidly as possible." Instructions were also included for units reactive for anti-HCV, the disposition of recovered plasma and autologous units, donors found to have anti-HCV, continuation of surrogate testing for NANB hepatitis and considerations about lookback.

In April, AABB President Toby L. Simon, MD, advised AABB members further about how to deal with anti-HCV positive donors in light of supplemental tests under development. A joint AABB, ARC and CCBC statement for the public and the media was also developed for release

upon Food and Drug Administration licensure of the HCV ELISA test. The joint statement contained information about the risk of hepatitis from blood transfusion, interpreting anti-HCV ELISA screening test results, guidance for donors, discussion of the traditional phase-in period and position on notifying previous recipients of transfusion.

A clarification memorandum from AABB President Toby L. Simon, MD, advised the membership on October 30, 1990 that the possible initiation of an educational effort to make transfusion recipients aware of the potential risk of HCV infection was being considered by the AABB Board of Directors and that further communication would be forthcoming.

**HIV-2.** On April 30, 1990 the AABB, ARC and CCBC issued a joint statement on "Screening Blood for Evidence of HIV-2 Infection." The joint statement supported the Food and Drug Administration recommendation that there was no current public health need for routine screening of donors of whole blood or source plasma for antibodies to HIV-2. The advisory indicated that recommendations concerning donor screening for antibodies to HIV-2 were to be updated as necessary, based on the results of surveillance studies or other new developments.

An additional memorandum on HIV-2 testing from AABB President Toby L. Simon, MD, advised AABB member institutions that the question of whether state law might mandate use of the HIV-2 test may be answered only on a state-by-state basis, and that updated information on this and related issues would be forthcoming.

**LONG-RANGE PLANNING** At its April meeting, the AABB Board of Directors concluded a long-range planning process by approving a planning document produced by the AABB Ad Hoc Planning Committee, chaired by an AABB past-president, Jacqueline D. Miller, MD. The document was based upon the AABB's recently completed scientific and administrative "think tanks," which looked into the future in their respective areas, and input from the AABB membership. The long-range planning document, to be used as a guide to the prioritization of future efforts of the Board, committees and staff, covered the following areas: educational activities, management information systems, blood bank practices, transfusion practices, impact of biotechnological advances on transfusion practices, legal environment, regulatory requirements, personnel and relationships with other organizations.

**STANDARDS** AABB's *Standards* is the most authoritative source on the practice of blood banking. It is used throughout the world as the primary reference for maintaining and improving the quality, safety and effectiveness of blood component collections, transfusions and transplantations.

Interim changes to the 13th edition of the *Standards* were implemented in October 1990. The AABB Standards Committee started preparation of the 14th edition.

**ANNUAL MEETING/JOINT CONGRESS** The ISBT/AABB 1990 Joint Congress, held November 10-15 in Los Angeles, California, provided members and non-members from around the world with the most successful blood banking educational event ever. More than



# *Technological and Scientific Developments*

*The 199[illegible] ISBT/A[illegible] Joint Congress Exhibit was the largest in AABB history. A total of 466 exhibit booths were needed to house exhibits from 167 companies.*

8,000 attendees from the United States and 57 countries worldwide attended this historic meeting. It was a historic occasion for many reasons, not the least of which is the fact that it was the first time in 18 years that the two organizations met jointly. Planning for this major event started four years ago and was carried out by many committees comprised of both AABB and ISBT volunteers. Selflessly giving of their time and talent, these volunteers planned and conducted more seminars, symposia and workshops than have ever been held at an AABB meeting.

Over 5,000 individuals attended 29 different scientific workshops addressing such topics as: "Processing of Bone Marrow for Transplantation," "New Advances in Hemostasis," "Perinatal Transfusion Medicine," "Emerging Global Patterns in Transfusion-Transmitted Infections," "Blood Group Systems: Kell" and "Transfusion Therapy: Guidelines for Practice." In addition to workshops, Scientific Short Programs were offered which dealt with "Red Blood Cell Serology," "Technical Aspects of Platelet Serology and Crossmatching," "Transfusion-Transmitted Infections: A Worldwide Perspective" and "Transfusion-Transmitted HIV: A Worldwide Update."

Administrative sessions covered such diverse topics as "Coping with Change," "Networking for Success," "Employee Motivation" and "Marketing Skills." Added for the Joint Congress were four Short Topics which presented information on "Donor Screening Processes," "Maintaining a Computer System to Meet Regulatory Requirements," "Managing Supply and Demand for Platelet Transfusions" and "Regionalized Testing."

A total of 792 scientific oral and poster presentations were given from abstracts that had been reviewed by the Selection of Abstracts Committee and over 90 volunteer reviewers. There were 189 administrative oral and poster presentations which were reviewed by the Administrative Program Committee.

Sixteen Forums were held representing the interests of several specialties within the fields of blood banking and transfusion medicine. These forums appealed to donor recruiters, inventory managers, public relations practitioners, donor room personnel, nurses, technical directors, hospital chief technologists, SBB faculty, parentage testing specialists, CEOs and computer users.

Once again, eight Research and Progress Sessions were well attended, as was the "International Affairs Symposium on Blood Transfusion in Developing Countries: Approaches to Improvements in Safety and Availability," cosponsored by the Scientific and Administrative Sections.

Another educational opportunity, the Joint Congress Exhibit, was the largest in the AABB's history. A total of 466 exhibit booths, representing 167 companies, were available for viewing by all attendees of this truly memorable event.

*AABB President Toby L. Simon, MD, with the assistance of ISBT President Gordon T. Archer, MD, cuts the ribbon to signify the opening of the 1990 ISBT/AABB Joint Congress Exhibit as Joanie Amorosi, AABB director of meeting services, looks on.*

# *Encouraging Excellence Through*

**TELECONFERENCES** There were six teleconferences held in the 1990 Association year. The first of these programs was "Changes in the AABB *Standards*: 13th Edition," held on November 15, 1989. This program drew the largest audience of the year with 110 sites and 2,542 participants. "Computerization: Quality Assurance and Validation" took place on February 14, 1990 presenting program development, validation and modification of existing computer systems to 108 sites and 1,742 participants. "Management of the Isoimmunized Prenatal and Perinatal Patient" reached an audience of 114 sites and 1,139 participants on April 25, 1990. "Quality Assurance in

Blood Banking" was the topic discussed in the June 27, 1990 teleconference. The total audience included 122 sites and 1,730 participants. September 12, 1990 was the date for the "Advances in Technology: DNA Analysis" teleconference program with 102 sites and 960 participants. The topic "Coagulation Case Studies" was presented in a live format to 102 sites and 1,017 participants on December 12, 1990.

**SPECIAL PRESENTATIONS** In 1990 an "Advanced Immunohematology Review" session was held in Los Angeles, California and Arlington, Virginia, for 149 participants.

**NATIONAL CONFERENCES** An inventory management conference, "Footsteps to the Future-Our Journey Continues," was jointly presented with the CCBC and South Central Association of Blood Banks (SCABB) on March 15-17, 1990 in Texas. A national conference discussing the various aspects of "Perioperative Autologous Transfusion" was presented in Arlington, Virginia, on May 10-11, 1990 for 234 participants. This program was very well received by the attendees and also resulted in publication of the conference proceedings.

The conference, "Compliance with the Code of Federal Regulations and FDA Inspections," was held in Arlington, Virginia, on May 12, 1990 for 120 participants and was again presented in Los Angeles, California, three weeks later on June 2, 1990 with 81 participants. The conference addressed the many aspects of FDA regulatory requirements, licensing and inspections.

# *Educational Programs and Services*

**PUBLICATIONS** In 1990, the AABB published references on a number of topics, including: blood group systems: Kell, controversies in transfusion medicine, processing of bone marrow for transplantation, transfusion therapy, emerging global patterns in transfusion-transmitted diseases, new advances in hemostasis for transfusion medicine, bone marrow transplantation from a nursing perspective, perinatal transfusion medicine, transfusion medicine in the 1990's and guidelines for blood salvage and reinfusion in surgery and trauma. In addition, the 10th edition of the *Technical Manual,* the first edition of *Standards for Parentage Testing Laboratories,* the *Donor Recruitment/Public Relations Manual* and volume 3 of the *Administrative Manual* were produced.

**TRANSFUSION MEDICINE EDUCATION** The Extracorporeal Committee published *Guidelines for Therapeutic Hemapheresis Procedures.*

The Pediatric Hemotherapy Committee had several articles published in *Transfusion:* "Directed and Limited-exposure Blood Donations for Infants and Children," and "Neonatal Red Cell Transfusions." The Committee conducted a Transfusion Audit Criteria survey of the 1,720 AABB Hospital Institutional Members. The results of the survey will be submitted for publication in 1991.

The Autologous Transfusion Committee developed and participated in the Second Autologous National Conference held in May 1990. The Committee was responsible for the publication of the *Guidelines for Blood Salvage and Reinfusion in Surgery and Trauma.*

The Workload Recording Committee continued to direct time studies on blood bank procedures and to recommend unit values for use in the College of American Pathologists' *Workload Recording Manual.* The Committee served as the faculty for the Workload Recording Workshop held during the 1990 AABB Annual Meeting in Los Angeles. The committee is working on several projects including the revision of the *Fundamentals of Blood Bank Workload Recording* and a workload recording management workshop to be held during the 1991 AABB Annual Meeting.

The Blood Data Committee revised the AABB Institutional Membership Annual Questionnaire. The results of the 1990 Annual Questionnaire were tabulated, and the information is presented in this year's AABB Annual Report.

The Standards Committee published interim changes to the 13th edition of the *Standards* that were implemented in October 1990. The Committee developed the proposed changes to the 13th edition of the *Standards* in preparation for the 14th edition, scheduled for publication in late 1991.

The Inspection and Accreditation Committee is responsible for inspecting and approving over 2,400 institutional members of the AABB. Over 600 inspectors were involved in the inspection and accreditation process in 1990.

The Information Systems Committee organized and published the document, "Guidelines for Preparing Standard Operating Procedures for Blood Bank Computer Systems," and continued development of the report, "Requirements and Enhancement for Blood Bank Computer Systems."

The Nursing and Donor Room Personnel Committee organized and coordinated three forums and one workshop for nurses and donor room personnel presented at the 1990 ISBT/AABB Joint Congress. They were also involved in marketing a workshop for the 1990 Joint Congress titled "Bone Marrow Transplantation: A Nursing Perspective." Additionally, the committee worked on proposals for audio-tape programs for first-time donors and standardized donor phlebotomist certification programs.

**NEWSLETTERS** By including late-breaking information and providing detailed coverage of regulatory, legal, legislative and scientific issues, *Blood Bank Week,* the weekly AABB newsletter, maintained its reputation as a major source of current information on blood banking and transfusion medicine. Subscriptions to *Blood Bank Week* increased to almost 1,500.

The monthly membership newsletter, *News Briefs,* was redesigned in 1990 to enhance its readability and to extend coverage of Association activities. New regular columns were added, including "Board Summary," "Inspection and Accreditation News," "Blood Center News" and "Government and Legal Affairs Update."

A new publication for nurses and donor room personnel was created in 1990. *The Collection Connection* joined five

other periodic newsletters, *I&A Inspector's Quarterly, News and Views, Scientific Section News, Administrative Notes,* and the *SBB Program Newsletter* that are written by various Association committees.

**AABB FAX NETWORK** Beginning July 1, the AABB initiated a rapid communications system, AABB FAX NET. The program was installed in response to member interest in more rapid dissemination of information given the importance and current pace of developments in blood banking and transfusion medicine. Important articles, news releases, joint statements, FDA memoranda and AABB reports/guidelines were included as part of the new AABB member subscription service.

**PUBLIC RELATIONS** To provide accurate and current information about the status of the blood supply, the AABB launched an expanded public relations program in 1990. The AABB's PR program is designed to communicate information to the public and the press about the steps that are in place to assure a safe and adequate blood supply and the role of AABB member institutions in promoting that safety.

**Media Relations.** Three press conferences were held in 1990. The first was a joint AABB, ARC and CCBC press conference held immediately following the licensing of the anti-HCV test, providing health writers with information about plans for testing implementation and estimates of the reduction of transfusion-associated HCV infection. Two other press conferences were held at the ISBT/AABB Joint Congress in Los Angeles. The first addressed international blood supply safety issues, briefing the media on safeguards and concerns around the world. The second press conference was held following the 1990 Karl Landsteiner Lecture, given by AIDS virus co-discoverers Robert C. Gallo, MD, and Luc Montagnier, MD, where they discussed future directions in AIDS research. Over 75 members of the press attended the Joint Congress, resulting in articles in a number of newspapers and journals and in television and radio coverage across the country. During 1990, the AABB received increased press coverage on a variety of issues and was mentioned thousands of times in news media nationwide. Efforts were also initiated to strengthen press contacts by the National Office and to establish the AABB and its spokespersons as media sources.

**Public Education Efforts.** Two video news releases were produced in 1990 to help answer questions about the safety and adequacy of the blood supply, resulting in hundreds of placements by television stations nationwide. In addition, an op-ed explaining the safeguards that are in place to protect the blood supply, authored by AABB President Toby L. Simon, MD, was printed in *The Washington Post* and in other newspapers around the country. Production was initiated on a print public service announcement, "Blood: What Every American Should Know," to be distributed to magazines and newspapers across the country, based on the message of the op-ed.

A kit for physicians on informed consent, featuring a videotape on the risks and benefits of transfusion with an introduction by former President Ronald Reagan, was produced and made available for purchase. Production was initiated to edit the Ronald Reagan introduction into a broadcast public service announcement on the importance of blood donations.

A media training session was held at the 1990 ISBT/AABB Joint Congress and was attended by approximately 75 meeting participants to enhance the ability of blood center staff to deal with media at the local level.

# *Improving Professional and Public Communication*

**PUBLIC ADVISORY GROUPS** In 1990, a round of public advisory group meetings was held by eight AABB member institutions to provide grass roots input from donors and patients on the role of the blood center in the community and current issues of interest to the public. The meetings served as an important source of consumer input and as a mechanism for soliciting the advice, counsel and support of donors and patients.

**GOVERNMENT AND LEGAL AFFAIRS** The purpose of the government and legal affairs program is to create an effective information network to provide advice and expertise on public policy issues affecting blood banking and transfusion medicine. In 1990, great progress was made by the AABB in making its voice and presence felt. Work was also begun to expand government affairs activities in many areas.

**Legislative - Congress.** In Congress, several federal legislative issue campaigns were pursued by the AABB, including the *Ryan White AIDS C.A.R.E.* bill with its blood safety, government agency appropriations and tort reform provisions. Through participation in selected coalitions, the AABB has enhanced its impact on many issues and built a reputation with key allies as an important player on Capitol Hill.

*Robert C. Gallo, MD, and Luc Montagnier, MD, at a press conference following the Karl Landsteiner Memorial Award Lecture at the 1990 ISBT/AABB Joint Congress moderated by incoming president Donald Doddridge.*

A Congressional investigation of the blood banking industry by the Subcommittee on Oversight and Investigations, chaired by Rep. John D. Dingell (D-MI), was handled by AABB with the assistance of an outside consultant specializing in "crisis management" on Capitol Hill. The AABB has kept open lines of communications with the Subcommittee investigators and cooperated by providing guidance to the Subcommittee as it considers possible legislative initiatives.

A new program to facilitate and encourage AABB member visits with their elected officials in Congress was received with enthusiasm and is expected to become an important aspect of the AABB government affairs program.

**Regulatory—Federal.** The AABB responded to federal regulatory proposals affecting AABB members. In 1990, AABB submitted comments on proposed rules published by the Food and Drug Administration, the Health Care Financing Administration and the Occupational Safety and Health Administration. The AABB serves as liaison for the blood banking community to key agency officials on regulatory topics.

**Legislative/Regulatory—State.** Increased AABB participation in state legislative and regulatory activities has also received a positive response from members. Action on many important legislative proposals was taken by AABB or coordinated with members. Key state legislative proposals addressed by the AABB and AABB members included a new blood shield statute in Vermont, blood bank licensing requirements in Iowa, and transfusion consent requirements in Arizona. Regulatory prohibitions on discriminatory blood donor pools were also supported in New York.

The "state network" of AABB members ready to respond to state legislative proposals is building. Network participants showed great value in their ability to use their local influence to handle state legislative initiatives.

The new *AABB Legislative Bulletin* and a regular column, "Government and Legal Affairs Update," in *News Briefs* has proven a popular addition to member services provided by the National Office.

**Legal Activity.** National Office attorneys continue to advise lawyers defending the AABB in the transfusion-associated AIDS lawsuits in which the Association is named as a defendant. The outcome of these cases will establish important precedents in any future litigation against the AABB and all standard-setting associations.

National Office attorneys also assist members' counsel in responding to lawsuits and with their informational needs. Reports of legal decisions in *Blood Bank Week* and *News Briefs* keep members apprised of trends in litigation involving blood banks. The Association joined with other blood banking organizations during the past year in several cases to file *amicus curiae* briefs on such issues as donor confidentiality.

*A research technologist examines the three-dimensional view of a blood sample created by a flow cytometer.*

**NATIONAL BLOOD EXCHANGE** The National Blood Exchange (NBE) facilitates the exchange of blood, blood components and blood credits between participating blood centers and hospitals in the United States. In 1990, transactions totaled 389,282. Of these transactions, 161,283 were whole blood or red blood cell transfers, and 157,931 were transfers of components.

In 1990, the National Blood Exchange purchased fax machines for reporting surplus and shortage for its district offices and produced and mailed the *Guide to the National Blood Exchange* to all its participants.

A Joint Inventory Management Conference cosponsored by the AABB and the National Blood Resource Committee, the Council of Community Blood Centers and the South Central Association of Blood Banks was held in Dallas in March, and the Committee planned and produced the Inventory Management Forum held at the AABB Annual Meeting.

At the request of the Board of Directors, the Committee also wrote a white paper on the issues involved in resource sharing.

*Liquid nitrogen storage tank containing rare red cell droplets.*

**REFERENCE LABORATORIES** As of December 31, 1990, there were 50 official AABB Reference Laboratories across the United States, providing exchange of information and consultation on rare blood group antibodies, typing, crossmatching, component preparation and therapy, blood compatibility testing and research.

Throughout the year, the Reference Laboratories Committee continued to coordinate and supervise the direction of RARE, an exchange system developed through the AABB Reference Laboratory Conference, for access to rare antisera on a mutual exchange basis. The committee also formulated and developed proficiency tests to measure technical expertise and serological resources in the reference labs.

**RARE DONOR FILE** During 1989, the Rare Donor File received a total of 153 calls requesting blood for immunized patients. These calls, plus many others made directly between participating members, resulted in 617 units of rare and fully phenotyped blood being supplied. The year-end inventory showed that member institutions had over 1,480 rare donors registered on their files and that nearly 17,771 fully phenotyped donors are known as well. Blood from these donors can be provided throughout the world for patients who form red cell antibodies.

**PARENTAGE TESTING** As of December 31, 1990, there were 47 AABB-accredited parentage testing laboratories. There are approximately 200 laboratories in the United States doing this type of work. The Parentage Testing Committee, which oversees the parentage testing accreditation program, reviewed, revised and published the "Standards for Parentage Testing Laboratories" this year. In addition, it initiated an on-site accreditation program, accrediting facilities in all five areas of paternity testing.

*Physicians perform the delicate bone marrow extraction procedure.*

The Parentage Specimen Program functions as an external proficiency testing mechanism, a source of unusual serum protein and/or red cell enzyme variants for use as a control by laboratories using electrophoretic techniques and provides paper problems or unusual case studies as a means of continuing education. Blood and purified DNA samples are sent to participants four times a year. There are 105 laboratories participating in the program.

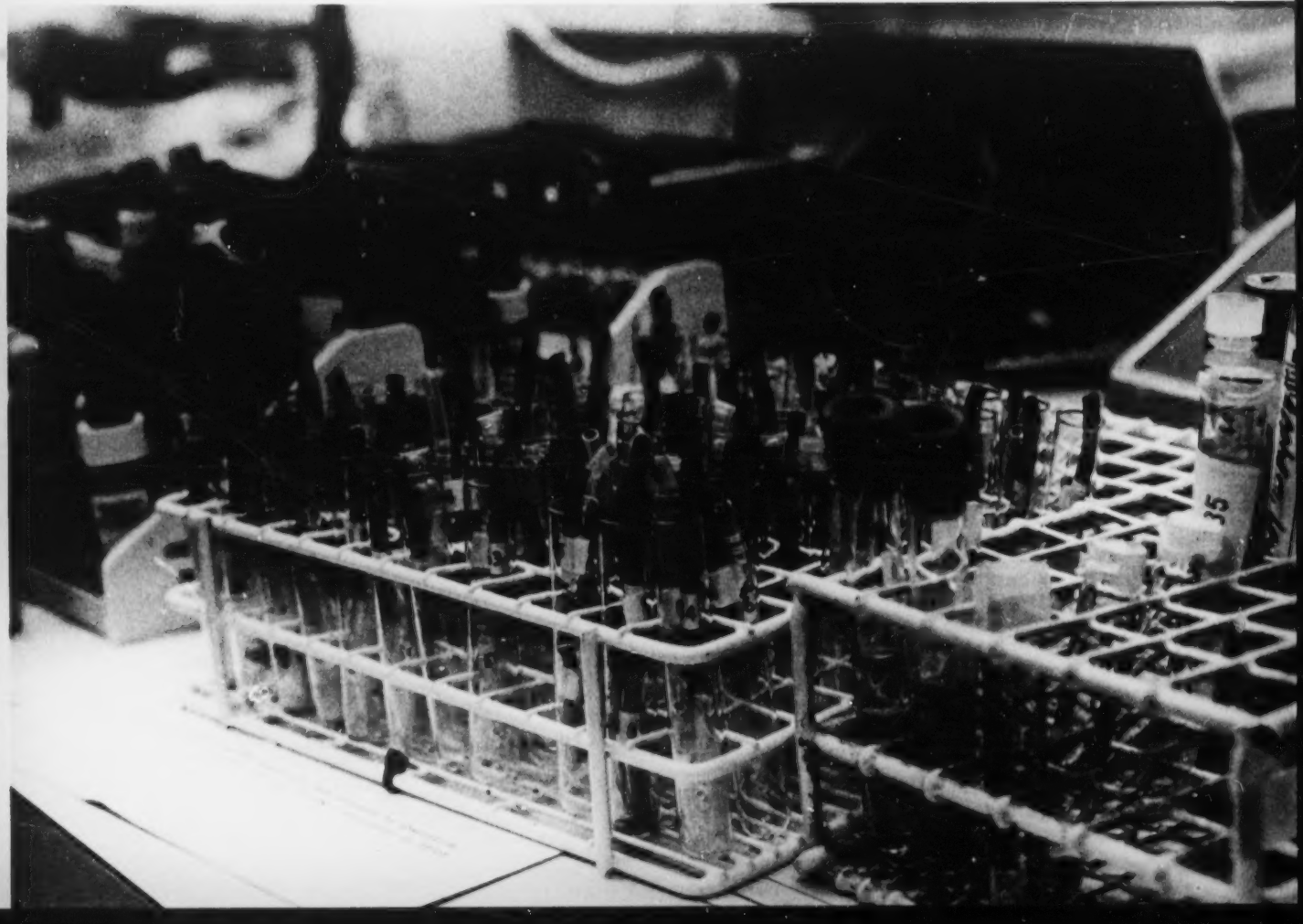
# *Providing Service to Patients and Donors*

**DONOR RECRUITMENT** The AABB continued to develop and improve programs related to the encouragement of blood donations. National Volunteer Blood Donor Month was celebrated in January 1990 with the theme "Giving Blood Saves Lives...Join the Giving Team!" on posters, and a proclamation was written by President George Bush saluting the generosity of volunteer donors. Ten-gallon donor plaques were awarded to over 900 donors across the country who have donated ten or more gallons and were nominated by their blood collection establishment. The National Honor Roll recognized 600 donor groups for outstanding participation in blood drives, as nominated by their blood collectors. At the Annual Meeting, AABB sponsored a booth in the exhibit hall exclusively for donor recruiters to share new recruitment ideas, and the Donor Resources/Community Relations Committee planned several forums on topics of interest to donor recruiters and blood center public relations personnel. A resource manual was developed by the Committee for donor recruiters and blood center public relations staff to provide input in managing programs and responding to issues.

**VIRAL MARKER SURVEYS** The AABB/CAP Viral Markers Surveys continued to increase in the number of participants. In 1990, there were over 2,095 participants in the surveys, which included the Viral Markers Survey (W), the Donor Module Survey (W-1) and the Diagnostic Module Survey (W-2).

**GROUP PURCHASING** The AABB Group Purchasing continued to expand in 1990. The number of active contracts increased to 39, and there were over 290 participating institutions contributing to approximately two million dollars in purchases. The Administrative Section Coordinating Committee is responsible for the monitoring and negotiating of contracts.

**INSURANCE COMMITTEE** Because of deteriorating conditions with blood bank professional liability insurance, the committee is exploring other sources for commercial insurance as well as industry-owned alternatives. The committee is proceeding with developing a captive insurance company.



# 1989-1990 BOARD OF DIRECTORS

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Vice President

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Pacific District

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Scientific Section
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John L. Drury
Administrative Section
Representative

# DATA REPORT



The data illustrated on the following pages were summarized from the 1990 AABB Institutional Membership Questionnaire that collected data for the period from January 1, 1989 to December 31, 1989. Of the 2,270 AABB Institutional Members mailed surveys, 2,117 (118 regional and community blood centers and 1,999 hospitals) responded to the questionnaire.

## COLLECTION DATA

| | Number of Institutions Providing Data | | | 1989 Totals |
|---|---|---|---|---|
| **HOMOLOGOUS DONATION DATA** | | | | |
| HOMOLOGOUS UNITS COLLECTED | (522) | | | 6,691,153 |
| At blood centers | (115) | 5,757,363 | (86%) | |
| At hospitals | (407) | 932,790 | (14%) | |
| **AUTOLOGOUS AND DIRECTED DONOR UNIT COLLECTION DATA** | | | | |
| AUTOLOGOUS UNITS COLLECTED | (1,007) | | | 441,848 |
| DIRECTED UNITS COLLECTED | (629) | | | 238,291 |
| INTRAOPERATIVE SALVAGE PROCEDURES PERFORMED | (122) | | | 38,284 |
| POSTOPERATIVE SALVAGE PROCEDURES PERFORMED | (149) | | | 23,070 |
| **COMPONENT COLLECTION DATA** | | | | |
| PLASMAPHERESIS | (71) | | | 21,719 |
| At blood centers | (33) | 19,198 | (88%) | |
| At hospitals | (38) | 2,521 | (12%) | |
| PLATELETPHERESIS | (239) | | | 171,197 |
| At blood centers | (84) | 109,662 | (64%) | |
| At hospitals | (155) | 61,535 | (36%) | |
| LEUKAPHERESIS | (100) | | | 2,671 |
| At blood centers | (43) | 1,309 | (49%) | |
| At hospitals | (57) | 1,362 | (51%) | |
| **THERAPEUTIC COLLECTION DATA** | | | | |
| THERAPEUTIC PHLEBOTOMIES | (1,118) | | | 66,801 |
| At blood centers | (80) | 16,131 | (24%) | |
| At hospitals | (1,038) | 50,670 | (76%) | |

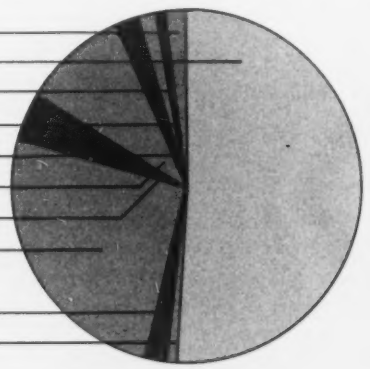
| | | | | |
|---|---|---|---|---|
| THERAPEUTIC APHERESIS | (323) | | | 43,200 |
| At blood centers | (48) | 9,987 | (23%) | |
| At hospitals | (275) | 33,213 | (77%) | |

## CROSSMATCH INFORMATION

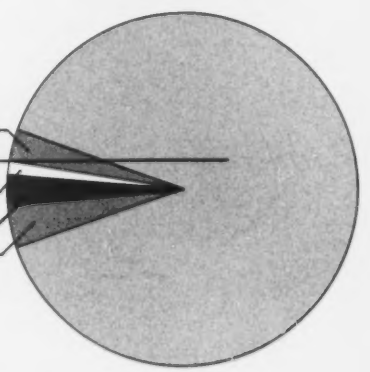
| | |
|---|---|
| Crossmatches performed | 15,744,447 |
| Crossmatch to transfusion ratio | 2:1 |

# TRANSFUSION DATA

| TRANSFUSIONS, ALL COMPONENTS | 1989 Totals | Percent |
|---|---|---|
| Whole blood | 226,154 | 1.6% |
| Red blood cells | 7,329,026 | 51.3% |
| Frozen/deglycerolized red blood cells | 48,100 | 0.3% |
| Leukopoor red blood cells[1] | 229,033 | 1.6% |
| Washed red blood cell | 270,823 | 1.9% |
| Fresh frozen plasma | 1,573,524 | 11.0% |
| Cryoprecipitate | 689,909 | 4.8% |
| Platelets (collected from single donor unit collections) | 3,666,575 | 25.6% |
| Platelets (collected by apheresis) | 253,279 | 1.8% |
| Granulocytes | 9,932 | 0.1% |
| TOTAL COMPONENTS TRANSFUSED | 14,296,355 | |



| TRANSFUSIONS, RED CELL COMPONENTS | 1989 Totals | Percent |
|---|---|---|
| Whole blood | 226,154 | 2.8% |
| Red blood cells | 7,329,026 | 90.4% |
| Frozen/deglycerolized red blood cells | 48,100 | 0.6% |
| Leukopoor red blood cells[1] | 229,033 | 2.8% |
| Washed red blood cells | 270,823 | 3.3% |
| TOTAL RED CELL COMPONENTS TRANSFUSED | 8,103,136 | |



[1] The disposition and transfusion of red cells with special filters to provide leukocyte-poor components varies among institutions. Therefore, the data do not necessarily reflect the total number of leukocyte-poor components transfused.

# 1989-1990 COMMITTEE MEMBERS

## AD HOC COMMITTEES OF THE BOARD

### Personnel Committee

Purpose: To provide advice and counsel to the president, Board of Directors and executive director concerning AABB personnel matters.
Bobby A. Grigsby, CPA, chairman
Arthur J. Silvergleid, MD
Edward L. Snyder, MD
Roger K. Svoboda, MBA,MS,MT(ASCP)SBB

### Ad Hoc Planning Committee

Purpose: Evaluate and propose long-range directions for the American Association of Blood Banks.
Jacqueline D. Miller, MD, chairman
Louise J. Keating, MD
Dale R. Malloy, DPA, MT(ASCP)SBB
Hayle B. Randolph, MT(ASCP)
Susan L. Wilkinson, MS, MT(ASCP)SBB
Ex-officio Members:
Donald D. Doddridge
Toby L. Simon, MD
Laurence A. Sherman, MD

### Ad Hoc Public Advisory Committee

Purpose: To set up and monitor consumer advisory panel meetings.
Arthur J. Silvergleid, MD, chairman
E. Shannon Cooper, MD
Gene A. Erickson

## ADMINISTRATIVE COUNCIL

### Blood Bank Workload Recording Committee

Purpose: To develop and maintain a current, comprehensive library of workload recording values for blood banks and transfusion services and to define a workload recording system that will be compatible with the College of American Pathologists' system.
Mark Lifshitz, MD, chairman
Col. Gary B. Clark, MD, USA, MC
Nancy Geer, MT(ASCP)
Sally G. Swenson, MT(ASCP)SBB
David S. Wilkinson, MD, PhD
Liaisons:
Robert S. Cox, Jr., MD, PhD
College of American Pathologists
Paul Jenner, MD
American Red Cross
Consultants:
William E. Kline, MS, MT(ASCP)SBB
Lieta Maffei, MT(ASCP)SBB

### Bylaws Committee

Purpose: To examine proposed Bylaws changes to assure that they conform to the current needs and direction of the Association.
Richard S. Kolecki, MD, chairman
E. Shannon Cooper, MD, JD
E. Arthur Dreskin, MD
Walter T. Watts, MT(ASCP)

### Commonality Committee

Purpose: Assume a leadership role in the technical specifications for blood collection and transfusion services labeling and coding of blood components and derivatives.
Edwin A. Steane, PhD, chairman
Ron Salisbury
Judy A. Tessel, MT(ASCP)SBB
Candace K. Williams
Liaisons:
Lee Kotwas
American Red Cross
Beverly Robinson
Council of Community Blood Centers
Joel Solomon, PhD
Food and Drug Administration

### Donor Resources and Community Relations Committee

Purpose: To assist blood centers and the donor resources professional in developing and maintaining a positive environment for blood donation through donor education and recruitment and community relations activities.
Jean E. Coach, chairman
David V. Bonk
Jodi Davis
Jill Hummels
Virginia Parsons, MBA, MT(ASCP)SBB
Sharon C. Perkins
Dan Waxman, MD

### Ethics Committee

Purpose: To offer peer review concerning issues related to the ethics of blood banking practice.
Grace M. Neitzer, MT(ASCP)SBB
Ronald E. Domen, MD
Kenneth N. Edwards
Page D. Sanchez-Meyer, MHS, MT(ASCP)SBB
Herbert Silver, MD
Louise Esplin Swensen

### Finance Committee

Purpose: To advise the Board concerning AABB fiscal policies and status.
Jane A. Mackey, chairman
William M. Coenen
James N. Cooper
Jerry Kolins, MD
William H. Portman
Ex-Officio Member:
Alfred J. Grindon, MD, Treasurer
Consultant:
James E. Way

### Information Systems Committee

Purpose: Monitor areas of concern to users of computer-assisted programs in blood banks and transfusion services.
Susan Steane, MS, MT(ASCP)SBB, chairman
Raymond D. Aller, MD
Tony C. Anthonisen
Elaine Gordon, MS, MT(ASCP)SBB
Carma Rippee-Lizza
Louise Smith, MPA, MT(ASCP)SBB
Ruth Zatik, MT(ASCP)
Liaisons:
David J. May
Blood Systems, Inc.
Joel Solomon, PhD
Food and Drug Administration

### International Affairs Committee

Purpose: To promote the activities of the Association on the international scene.
Pablo D.J. Fortes, BS(ASCP)SBB, chairman
Jean-Pierre Allain, MD, PhD
Victor E. Escovedo, MT(ASCP)
Tibor J. Greenwalt, MD
Chantal R. Harrison, MD
Ramon N. Kranwinkel, MD
Mark A. Popovsky, MD
Paul J. Schmidt, MD
Cees Th. Smit-Sbinga, MD, PhD
Consultants:
Anthony M. Bruno, MPH, MD
Pan American Health Organization/WHO
Michael H.K. Irwin, MD
United Nations

### Membership Committee

Purpose: To advise the Board regarding membership recruitment and applications.
Edward O. Carr, MT(ASCP)SBB, chairman
John L. Drury
David J. May
Sandra Smietana, MT(ASCP)SBB
Danna Sorenson, RN
Christopher Stowell, MD, PhD

### National Blood Resource Committee

Purpose: On behalf of the Association, recommend guidelines for national blood resource sharing and provide assistance to the National Office to insure effective and responsible service to National Blood Exchange participants.
Dale R. Malloy, DPA, MT(ASCP)SBB, chairman
Linda Belcher, MAT, MT(ASCP)SBB
Victoria Harding
Klaus Mayer, MD
Joseph G. Ridley
Roger K. Svoboda, MBA, MS, MT(ASCP)SBB
Nancy P. Vital
Catherine L. Wells
Ronald G. Wilkins
Liaisons:
CDR Gerald Baker, MSC, USN
Military Blood Program
Kathy Houlihan
American Red Cross
Edwin F. Smith
Council of Community Blood Centers

### Nursing and Donor Room Personnel Committee

Purpose: To foster the involvement of nursing and donor room personnel in the AABB and to provide expertise concerning the responsibilities of nursing and donor room personnel in allied sciences that pertain to blood banking.
Mary Rzasa, RN, chairman
Robert W. Braun, MT(ASCP)SBB
H. Mustafaa Carroll
Lani Gerber, RN
Wendy Holmes, RN, MSN
Joan S. Jensen, RN
Stephanie Jonker, RN
Janet Pavel, RN
David E. Sharp, MD, PhD
Consultant:
Christina A. Kasprisin, MS, RN
Liaisons:
Beverly Esparaza, RN
Oncology Nursing Society
Patricia Harrington, RN
American Nurses Association

### Safety Committee

Purpose: To provide guidance on safety procedures for the blood center and transfusion service.
Joseph G. Ridley, chairman
Stephen J. Brown, MT(ASCP)SBB
Jeanne A. Dahl, MT(ASCP)
Gerald A. Hoeltge, MD
Robert E. James, III, MD, PhD
Liaisons:
Michael Kiley, MD
Center for Disease Control
P. Ann Hoppe
Food and Drug Administration
Susan Harwood, PhD
Occupational Safety and Health Administration
John J. Zlockie, MT
NCCLS

### Ad Hoc Building Committee

Purpose: To assist staff with tasks and activities associated with the assessment of future space requirements for the National Office and the most appropriate solution to those requirements.
Bobby A. Grigsby, CPA, chairman
Donald D. Doddridge
Joan A. Maher, MT(ASCP)SBB
Robert L. Travis, MT(ASCP)SBB

### Ad Hoc Committee on Elections

Purpose: To ensure that elections at the Annual Business Meeting are conducted in accordance with Association policies.
Edwin F. Smith, chairman
Naomi L. C. Luban, MD
Leo J. McCarthy, MD
David R. Parsons
Jack Smythe
Robert L. Travis, MT(ASCP)SBB

### Ad Hoc Insurance Committee

Purpose: To monitor the AABB professional liability insurance program for

AABB institutional members and work toward establishing a risk retention group for the AABB.
J. Daniel Connor, chairman
Jane A. Mackey
Jay H. Olmstead
William Portman

## EDUCATIONAL COUNCIL

### Academic Transfusion Medicine Committee

Purpose: Establish working relations between TMAA, NHLBI and AABB.
Ennio C. Rossi, MD, chairman
James P. Crowley, MD
Douglas W. Huestis, MD
Margot S. Kruskall, MD
John D. Milam, MD
Paul J. Schmidt, MD
Edward L. Snyder, MD
Liaison:
Paul R. McCurdy, MD
NHLBI/NIH

### Accreditation of SBB Schools

Purpose: To serve as a joint review board in collaboration with CAHEA for the accreditation of educational programs for Specialist in Blood Bank Technology.
Teresa D. Anderson, MT(ASCP)SBB, chairman
Joyce Davis, MBA, MT(ASCP)SBB
Ellis M. Frohman, MA, MT(ASCP)SBB
Robert Heinz, MT(ASCP)SBB
Jane E. Mesnard, MS, MT(ASCP)SBB
Marcus B. Simpson, Jr., MD
Hannis W. Thompson, MD

### Administrative Program

Purpose: To plan and organize the administrative programs and events for the Annual Meeting.
Brian P. McDonough, chairman
Julie A. Beck, MT(ASCP)SBB
Richard S. Eisenstaedt, MD
Claire Hall
Sharolyn Kriger, RN, MBA
Judi A. Sherwin-Matok, MT(ASCP)SBB
Barbara Zimmerman, MT(ASCP)SBB

### Annual Meeting Seminar Committee

Purpose: To plan, organize and conduct the Annual Meeting Seminar.
Sandra J. Nance, MS, MT(ASCP)SBB, chairman
Daniel B. Brubaker, DO
Ed Drozda, MT(ASCP)SBB
Elizabeth A. Hartwell
Peter D. Issitt, PhD
Ruth Miller Mougey, MT(ASCP)SBB
Mark A. Popovsky, MD
Liaison:
Gail A. Rock, MD, PhD
Scientific Program Committee

### Awards Committee

Purpose: To make recommendations to the AABB Board regarding certain named awards. The members of this committee are anonymous.

### Certification Committee (SBB/BB)

Purpose: To serve as an AABB/BoR committee for BoR examinations in blood banking. To serve as advisory group to the Board of Directors of the AABB on all matters pertaining to certification of blood bank technologists.
Susan L. Wilkinson, MS, MT(ASCP)SBB, chairman
Joan M. Barker, MT(ASCP)SBB
Peggy J. Brown, PhD, MT(ASCP)SBB
William Hunter, MD
Susan F. South, MT(ASCP)SBB
Ronald Strauss, MD
Stephanie Summers, MEd, MT(ASCP)SBB
Virginia Vengelen-Tyler, MBA, MT(ASCP)SB
Representative:
Faye Weirich, MT(ASCP)SBB
Board of Registry

### Continuing Education Committee

Purpose: To develop content for, and implement, comprehensive continuing education programs which can be presented on a regional basis.
Melanie S. Kennedy, MD, chairman
James P. Aubuchon, MD
Lucia B. Berte, MA, MT(ASCP)SBB
Deborah Brown, MT(ASCP)SBB
Katherine B. Carlson, MT(ASCP)SBB
Myra L. Collins, MD, PhD
Estre Culotta, MHS, MT(ASCP)SBB
Patricia Ellinger, MSEd, MT(ASCP)SBB
Joseph D. Mann, MD
Laverne McMahon, MEd, MT(ASCP)SBB
Bruce Newman, MD
Connie Westhoff-Waletich, MT(ASCP)SBB
Janet Kay Wilson, MT(ASCP)SBB
Liaison:
Nancy A. Murphy, MT(ASCP)SBB

### Exhibits Committee

Purpose: To provide, through exhibits at the Annual Meeting, information on tests, materials and devices designed to serve the needs of donors and patients; to offer a forum in which commercial organizations can present available items; to provide a forum for educational exhibits; and to ensure that exhibitors conform to the policies of the Health Care Exhibitors Association.
Kathleen O. Chadwick, MT(ASCP)SBB, chairman
Frances S. Chizeck
Mindy Cooper-Smith, MT(ASCP)SBB
James N. Cooper
Bruce Haguewood

### Organizing Committee, ISBT/AABB 1990 Joint Congress

Purpose: Plan and coordinate with the Department of Meeting Services a meeting with the International Society of Blood Transfusion (ISBT) to be held in 1990 in Los Angeles, California.
Eugene M. Berkman, MD, chairman
Gordon T. Archer, MD
Richard Aster, MD
Lewellys F. Barker, MD
Kathleen O. Chadwick, MT(ASCP)SBB
George Garratty, PhD, FIMLS, MRCPath
Norman Kear
Jeffrey McCullough, MD
Brian P. McDonough
Sandra J. Nance, MS, MT(ASCP)SBB
Lawrence D. Petz, MD
Col. Anthony J. Polk, MS, USA
Stanley C. Roberts, SBB(ASCP)
Gail A. Rock, MD, PhD
S. Gerald Sandler, MD
Laurence A. Sherman, MD
Judi A. Sherwin-Matok, MT(ASCP)SBB
Toby L. Simon, MD
Dennis M. Smith, Jr., MD
Barbara Zimmerman, MT(ASCP)SBB
Consultant:
Pablo D.J. Fortes, BS(ASCP)SBB

### Publications Committee

Purpose: To determine the need and suitability of proposed publications and also serve to smooth the publication of approved manuscripts.
Joel Umlas, MD, chairman
Robert E. Albee, III
Harold A. Oberman, MD
Susan D. Rolih, MS, MT(ASCP)SBB
Marilyn J. Telen, MD

### Scientific Program Committee

Purpose: To plan meaningful scientific communications and lectures for the Annual Meeting.
Gail A. Rock, PhD, MD, chairman
Kenneth C. Anderson, MD
David L. Cooper, MD, PhD
Naomi L.C. Luban, MD
Francis S. Morrison, MD
Marilyn K. Moulds, MT(ASCP)SBB
Marilyn J. Telen, MD
Liaisons:
Sandra J. Nance, MS, MT(ASCP)SBB
Annual Meeting Seminar Committee
Lawrence D. Petz, MD
Selection of Abstracts Committee

### Selection of Abstracts Committee

Purpose: To conduct the process of evaluation and selection of technical/scientific abstracts for presentation at the Annual Meeting.
Lawrence D. Petz, MD, chairman
Michael P. Busch, MD, PhD
William A. Fricke, MD
George Garratty, PhD, FIMLS, MRCPath
Glenn Ramsey, MD
Ronald Strauss, MD
Gary E. Tegtmeier, PhD

### Technical Manual Committee

Purpose: To prepare a *Technical Manual* that will provide practical guidance concerning methods and techniques that implement the *Standards*.
Richard H. Walker, MD, chairman
Paul M. Ness, MD
Herbert F. Polesky, MD
Susan D. Rolih, MS, MT(ASCP)SBB
Virginia Vengelen-Tyler, MBA, MT(ASCP)SBB
Liaisons:
P. Ann Hoppe
Food and Drug Administration
Michael J. Ward, MAJ, USAF, BSC
Department of Defense

### Technical/Scientific Workshops Committee

Purpose: To provide overall planning and coordination of the Association's technical workshops.
Dennis M. Smith, Jr., MD, chairman
Michael L. Baldwin, MBA, MT(ASCP)SBB
Alice R. Barr, (ASCP)SBB
Daniel B. Brubaker, DO
Katherine B. Carlson, MT(ASCP)SBB
Morris R. Dixon, MS, MT(ASCP)SBB
Frances L. Gibbs, MS, MT(ASCP)SBB
Avrum Golub, MD
Christina A. Kasprisin, MS, RN
Sanford R. Kurtz, MD
Barbara Laird-Fryer, MT(ASCP)SBB
Judith S. Levitt, MT(ASCP)SBB
Leo J. McCarthy, MD
Joann M. Moulds, PhD
Ronald A. Sacher, MD
Phyllis Unger, MT(ASCP)SBB
Robert G. Westphal, MD
Susan M. Wilson, MT(ASCP)SBB
Laura Lee Woods, MS, MT(ASCP)SBB
Liaisons:
Melanie S. Kennedy, MD
Continuing Education Committee
Mary Rzasa, RN
Nursing and Donor Room Personnel Committee

### Ad Hoc Education Advisory Committee

Purpose: Ensure educational programs are developed that will best meet the educational needs of the AABB membership, (technical, medical, administrative, nursing and donor recruitment), accomplish the goals of the AABB, and are developed and implemented in the most cost-effective and/or cost-recoverable way to the AABB.
Richard S. Eisenstaedt, MD, chairman
Richard J. Davey, MD
Melanie S. Kennedy, MD
Gail A. Rock, MD, PhD
Ennio C. Rossi, MD
Mary Rzasa, RN
Dennis M. Smith, Jr., MD
Joel Umlas, MD

## SCIENTIFIC COUNCIL

### Autologous Transfusion Committee

Purpose: To provide expertise concerning autologous transfusion practices and procedures. To recommend appropriate performance standards, and to provide education concerning their uses.
Linda C. Stehling, MD, chairman
Walter H. Dzik, MD
Kenneth D. Friedman, MD
Lani Gerber, RN
Steven A. Gould, MD
Margot S. Kruskall, MD

David G. Schoenleber, RN, MT(ASCP)SBB
Roslyn Yomtovian, MD
Liaison:
P. Ann Hoppe
Food and Drug Administration

### Blood Data Committee

Purpose: To assure that data indicative of important trends in blood banking and transfusion medicine are available to the Association in a timely fashion. To assure that any additional questionnaires submitted to the membership are appropriate.
Patricia Devine, MD, chairman
Joseph R. Bove, MD
Amoz Chernoff, MD
David Ciavarella, MD
Margaret Hanson, MT(ASCP)SBB
Lynn K. Hoffstadter, MT(ASCP)SBB
Linda D. Horton, MT(ASCP)SBB
Jeanne V. Linden, MD, MPH
Nina Postoway, MBA, MT(ASCP)SBB
Douglas Surgenor, PhD
Consultant:
Herbert F. Polesky, MD

### Extracorporeal Therapy Committee

Purpose: To serve as a source of expertise for AABB programs that relate to extracorporeal and therapeutic apheresis.
Duke O. Kasprisin, MD, chairman
D.H. Buchholz, MD
Diane Ferguson, MT(ASCP)SBB
Dallas A. Forshew, RN
Susan F. Leitman, MD
Francis Morrison, MD
David E. Sharp, MD, PhD
David H. Yawn, MD

### Inspection and Accreditation Committee

Purpose: To implement the Association's Inspection and Accreditation Program.
Herbert Silver, MD, chairman
Vice Chairmen:
J. Robert Beck, MD
Marilyn F.M. Johnston, MD, PhD
Francis S. Jones, MD
Mabel M. Stevenson, MD
Area Chairmen:
Richard E. Bettigole, MD
Leslie Ray Bryant, Jr., MD
Joseph H. Cooper, MD
Bennett Edelman, MD
Ronald O. Gilcher, MD, FACP
John A. Griep, MD
Samuel J. Insalaco, MD
George M. Katibah, MD
Todd A. Kolb, MD
Jerry Kolins, MD
Mark D. Kolins, MD
Ramon N. Kranwinkel, MD
Mercy Kuriyan, MD
Daniel J. Ladd, MD
James E.T. Laningham, MD
Leo J. McCarthy, MD
Donald C. McKee, MD
Joseph S. Pennepacker, MD
William Charles Pfister, MD
Emmett B. Reilly, MD
Helen M. Richards, MD
Irene E. Roeckel, MD
Robert B. Schultz, MD
Joseph F. Stocks, MD
Consultant:
Margaret Wallace, MT(ASCP)SBB
Liaisons:
P. Ann Hoppe
Food and Drug Administration
Hans J. Peters, MD
College of American Pathologists
CDR Gerald C. Baker, USN
Department of Defense
Richard H. Walker, MD
Technical Manual Committee
Frances K. Widmann, MD
Standards Committee

### Parentage Testing Committee

Purpose: To provide a source of expertise in matters related to parentage testing.
Jerome L. Gottschall, MD, chairman
Robert W. Allen, PhD
Michael L. Baird, PhD
Daniel D. Garner, PhD
Charlene A. Hubbell, MT(ASCP)SBB
Debra R. Mozill, MT(ASCP)SBB
Gary M. Troup, MD
Robert E. Wenk, MD
Robert C. Williams, PhD
Liaisons:
Michael E. Barber
ABA
Marilyn S. Pollack, PhD
ASHI

### Pediatric Hemotherapy Committee

Purpose: To foster a knowledge and understanding of blood transfusion therapy in neonates and children, and to offer guidance for the optimal use of blood components and blood center services for these patients.
Ronald Strauss, MD, chairman
Christine Barrasso, MT(ASCP)SBB
Victor S. Blanchette, MD, FRCP, MRCP
Janice Fay Blazina
Heather Hume, MD, FRCP(C)
Gary J. Levy, MD
Lynn Black Scholz, MS, MT(ASCP)SBB
Cirilo Sotelo-Avila, MD
Alice L. Werner, MD
Liaison:
Alvin M. Mauer, MD
American Academy of Pediatrics

### Reference Laboratory and Rare Donor File Committee

Purpose: To develop and maintain criteria for accrediting laboratories to which blood banking problems can be referred for consultation, and to maintain the rare donor file.
Judy A. Tessel, MT(ASCP)SBB, chairman
Richard J. Davey, MD
Virginia W. Hare, MT(ASCP)SBB
Linda A. Issitt, MT(ASCP)SBB
Janice McFarland, MD
Judy R. Norcia, MT(ASCP)SBB
Sherry Perry, MT(ASCP)SBB
Ann Rea, MT(ASCP)SBB
Consultant:
Kathleen Skradski, MT(ASCP)SBB

### Standards Committee

Purpose: To develop and publish biannually standards for relevant aspects of blood bank practices.
Frances K. Widmann, MD, chairman
Carol A. Bell, MD
Suzanne H. Butch, MT(ASCP)SBB
Pablo D.J. Fortes, BS(ASCP)SBB
Dennis Harpool, BS, SBB
Louise J. Keating, MD
German F. Leparc, MD
Naomi L.C. Luban, MD
Jay E. Menitove, MD
Paul D. Mintz, MD
Arthur J. Silvergleid, MD
Joberta Wells, MT(ASCP)SBB
Liaisons:
Hans J. Peters, MD
College of American Pathologists
Col. Anthony J. Polk, MS, USA
Department of Defense
Herbert Silver, MD
Inspection and Accreditation Committee
Joel Solomon, PhD
Food and Drug Administration
Susan Steane, MS, MT(ASCP)SBB
Information Systems Committee
Richard H. Walker, MD
Technical Manual Committee

### Transfusion Practices Committee

Purpose: To promote appropriate preparation and use of blood components, including those collected by cytapheresis. Provide guidelines on transfusion practice for hospital transfusion services.
Leslie E. Silberstein, MD, chairman
Kenneth C. Anderson, MD
Lawrence T. Goodnough, MD
Sanford R. Kurtz, MD
Thomas A. Lane, MD
Gary Moroff, PhD
Merlin H. Sayers, MD, PhD
Consultant:
Patricia Pisciotto, MD
Liaisons:
Ronald Faust, MD
American Society of Anesthesiologists
Carol Kasper, MD
National Hemophilia Foundation
Kay McCurdy, SBB(ASCP)
Food and Drug Administration

### Transfusion Transmitted Disease Committee

Purpose: To provide consultation, as needed, on all facets of transfusion and transplantation related diseases and related laboratory tests.
Paul V. Holland, MD, chairman
Harvey J. Alter, MD
Eugene M. Berkman, MD
Celso Bianco, MD
Steven H. Kleinman, MD
Peter L. Page, MD
Ernest R. Simon, MD
Consultants:
F. Blaine Hollinger, MD
James Shorey, MD
Richard Wasserman, MD, PhD
Liaisons:
Jay S. Epstein,MD
Food and Drug Administration
Robert Reilly
American Blood Resources Association
S. Gerald Sandler, MD
American Red Cross
Merlin Sayers, MD, PhD
Council of Community Blood Centers
Frances K. Widmann, MD
AABB Standards Committee

### Transplantation Immunology Committee

Purpose: To serve as a source of expertise in tissue and organ banking and histocompatibility testing.
James M. Mason, PhD, chairman
James W. Funkhouser, MD
Nancy Gianino, RN, BSN
Barbara C. Gorgone, MT(ASCP)SBB
Ram Kakaiya, MD
Marjorie Kimball, MT(ASCP)SBB
Larry C. Lasky, MD
Del M. Steckler, RN
Chester Zmijewski, PhD
Consultant:
Margaret J. Ball, MD
American Red Cross Blood Services
Liaison:
Jeanne Mowe
American Association of Tissue Banks

## ADMINISTRATIVE SECTION COORDINATING COMMITTEE

Purpose: To enhance the professionalism associated with blood banking administration and to provide a voice on the AABB Board of Directors through an elected representative. To provide services that further the best interests of the Association.
John L. Drury, chairman
J. Daniel Connor, vice-chairman
Jean E. Coach, secretary
Tony C. Anthonisen
David V. Bonk
Rhoda Burns
Dan H. Curtis, MT(ASCP)
Richard Eisenstaedt, MD
Trudell Green, MT(ASCP)SBB
Claire M. Hall
Jill Hummels
Sharolyn R. Kriger, RN, MBA
John Orrell, (ASCP)SBB
Virginia C. Parsons, MBA, MT(ASCP)SBB
Joseph G. Ridley
Annie Laurie Samuels
Edmund N. Smith
Lawrence Smith
Tammy Tackett, MT(ASCP)SBB
Dan Waxman, MD
Rob Whidden
Representative from SSCC:
Frances K. Widmann, MD

## SCIENTIFIC SECTION COORDINATING COMMITTEE

Purpose: To represent the interests of the individual members of the AABB who are concerned with the medical, scientific and technical aspects of blood banking. Specifically it should be an official channel of communication between individual members of the scientific-technical community and the AABB Board of Directors, its officers and committees. It should advise the AABB Board of Directors and its officers on matters relevant to the medical, scientific and technical aspects of the Association and it should

identify new or emerging areas of transfusion medicine, science or technology that have importance for blood banking and develop a role for the AABB in these areas.
Paul M. Ness, MD, chairman
Frances K. Widmann, MD, vice chairman
Susan L. Wilkinson, MS, MT(ASCP)SBB, secretary
Kenneth C. Anderson, MD
Richard J. Davey, MD
Roger Y. Dodd, PhD
George Garratty, PhD, FIMLS, MRCPath
Linda A. Issitt, MT(ASCP)SBB
Thomas A. Lane, MD
Larry C. Lasky, MD
Ann McMican, MS, MT(ASCP)SBB
Margaret E. Nichols, PhD, FIMLS
Mark A. Popovsky, MD
Leslie E. Silberstein, MD
Joel Umlas, MD
Marjory Stroup Walters, MT(ASCP)SBB
Representative from ASCC:
J. Daniel Connor

## DISTRICT ADVISORY GROUPS

### Northeast District

James N. Cooper
Barbara C. Gorgone, MT(ASCP)SBB
Harold S. Kaplan, MD
Harvey G. Klein, MD
David J. Krugman, MD
Jeanne V. Linden, MD, MPH
Dorothy C. Malamut
Peter L. Page, MD
Sharon C. Perkins
Herbert Silver, MD
Donna L. Smith, MT(ASCP)SBB
Harry L. Taylor, MD
Robert L. Travis, MT(ASCP)SBB
Ronald A. Yankee, MD

### Southeast District

Kaye S. Acton, MT(ASCP)SBB
Robert E. Albee, III
Edward O. Carr, MT(ASCP)SBB
Myra Collins, MD, PhD
Lloyd Cook, MD
Myrna Cott, MT(ASCP)SBB
Dorothy M. Floyd, MAEd, MPH, MT(ASCP)SBB
Todd A. Kolb, MD
Eoline I. McGowan, MD
Margaret M. McMinn, MT(ASCP)SBB
Paul J. Schmidt, MD
Mary Ann Spivey, MHS, MT(ASCP)SBB
Christopher Stowell, MD, PhD

### North Central District

Marvin Cooley, MD
Elaine Crouter, MT(ASCP)SBB
Alice M. Floss, MT(ASCP)SBB
Jacquelyn Fredrick, MT(ASCP)SBB
James R. Hill, MD
Jayne L. Hollander, MD
Arthur C. Jay, MD
Kathryn Johnson, MT(ASCP)SBB
Don Meyer, MT(ASCP)SBB
S. Brenndan Moore, MD
Richard W. Peters, MD
Frances L. Tuscany, MT(ASCP)SBB
Phyllis Unger, MT(ASCP)SBB
Phyllis Warkentin, MD

### South Central District

Christopher D. Coffin, MT(ASCP)SBB
Estre Culotta, MHS, MT(ASCP)SBB
Morris R. Dixon, MS, MT(ASCP)SBB
Gene E. Ewing, MD
Diane Ferguson, MT(ASCP)SBB
Melanie Gidden, MHS, MT(ASCP)SBB
William F. Heller, MT(ASCP)SBB
Patricia L. Jones, MT(ASCP)SBB
Norman D. Kalmin, MD
Duke Kasprisin, MD
John D. Milam, MD
Francis S. Morrison, MD
Ethel Patten, MD
Bill T. Teague, MT(ASCP)SBB
David H. Yawn, MD

### Pacific District

Carol A. Bell, MD
Audrey Gartner
Gerald P. Giordano, MD
Elizabeth Hafleigh, MT(ASCP)SBB
Teresa Harris, MT(ASCP)SBB
Donald McClure, MD
Stephen K. Miller
Linda Peterson, RN, MT(ASCP)
Ira A. Shulman, MD
Carol J. Tweedy, MT(ASCP)SBB
Virginia Vengelen-Tyler, MBA, MT(ASCP)SBB
Mary T. Wood, MT(ASCP)SBB
Vincent A. Yalon
Judith A. Young, MA, MT(ASCP)SBB

## National Office Staff

Jo Ann Hoffman, Acting Executive Director, Associate Executive Director, Programs
Joan M. Smith, Executive Assistant, Executive Office
Elena Bond, Secretary, Executive Office
Irene Bet-Daniel, Administrative Assistant, Programs
P. Robert Rigney, Associate Executive Director, Public Affairs
Mary Ellen Carter, Administrative Assistant, Public Affairs
Cynthia Kelly, Director, Government and Legal Affairs
Melissa Ottone, Secretary, Government and Legal Affairs
Marcia S. Lane, Director, Communications and Public Relations
Megan Heaslip, Assistant to the Director, Communications and Public Relations
Robin Grossfeld, Director, Membership & Marketing
Dana E. Felton, Secretary, Membership & Marketing
Lisa Horvath, Customer Service Representative, Membership & Marketing
Debbie Williams, Sales Assistant, Membership & Marketing
Marie Apollon, Sales Assistant, Membership & Marketing
Stephanie Blocker, Membership/Sales Assistant, Membership & Marketing
Joanie M. Amorosi, Director, Meeting Services
Phyllis Brashears, Assistant Director, Meeting Services
Tonja Eisenbarth, Secretary/Meeting Assistant, Meeting Services
Lisa Daido, Registration Clerk, Meeting Services
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Janet R. McGrath, Manager, Publications
Joseph Rusko, Editorial Assistant, Publications
Carolinda Hales, Publications Editor, Publications
Elizabeth A. Colgan, Production Manager, Publications
Martin Lynds, Production Assistant, Publications
Eileen R. Church, Newsletter Editor and Writer, Publications
Elizabeth A. Smith, Editorial Assistant, Publications
Jean Otter, Director, Continuing Education
Peggy F. Allison, Assistant to the Director, Continuing Education
Taneen Carvell, Program Coordinator/Secretary, Continuing Education
Carol S. Anderson, Director, Transfusion Sciences and Education
Bruce R. Fuller, Associate Executive Director, Administration and Finance
Joyce D'Avanzo, Administrative Assistant, Administration and Finance
Michael C. Koon, Controller, Accounting
Bichthu Nguyen, Senior Accountant, Accounting
Martha I. Cueva, Operations Accountant, Accounting
Tim Brown, Accounting Clerk, Accounting
Nicole J. Porter, Director, Personnel
Terri L. Thruston, Secretary, Personnel
Nicole Hawkins, Receptionist/Secretary, Personnel
Deanna M. Hines, Director, Technical Services
Sally Guintu, Manager, Management Information Systems
Robert Stofferson, Computer Support Specialist, Management Information Systems
Richard Klimkiewicz, Office Manager, Office Services
Frank Berry, Inventory/Shipping Coordinator, Office Services
Scott Kitts, Office Services Clerk, Office Services
Barbara Young, Director of Blood Bank Programs
Robert C. Henkel, Assistant to the Director, National Blood Exchange
John Saville, Pacific District Representative, National Blood Exchange
Rachel Maines, NE/SE District Representative, National Blood Exchange
Debbie McKillip, NC/SC District Representative, National Blood Exchange
Mary Wood, Data Entry Operator, National Blood Exchange
Stacey Pellicio, Parentage Testing Coordinator, Inspection & Accreditation
Tanya Davis, Coordinator, Inspection & Accreditation
Angela B. Buscemi, Coordinator, Inspection & Accreditation

# FINANCIAL STATEMENTS



## American Association of Blood Banks
## Financial Statement for the Year Ended September 30, 1990
## Together with Audit Report of Independent Public Accountants

### TREASURER'S REPORT

The financial statements of the American Association of Blood Banks for the year 1990 are presented on the following pages. The records of the Association have been audited by Arthur Andersen & Co., certified public accountants.

The results for the year were in accord with the long-range plan and the Association remains in a sound fiscal position.

Alfred J. Grindon, MD
Treasurer

### REPORT OF INDEPENDENT PUBLIC ACCOUNTANTS

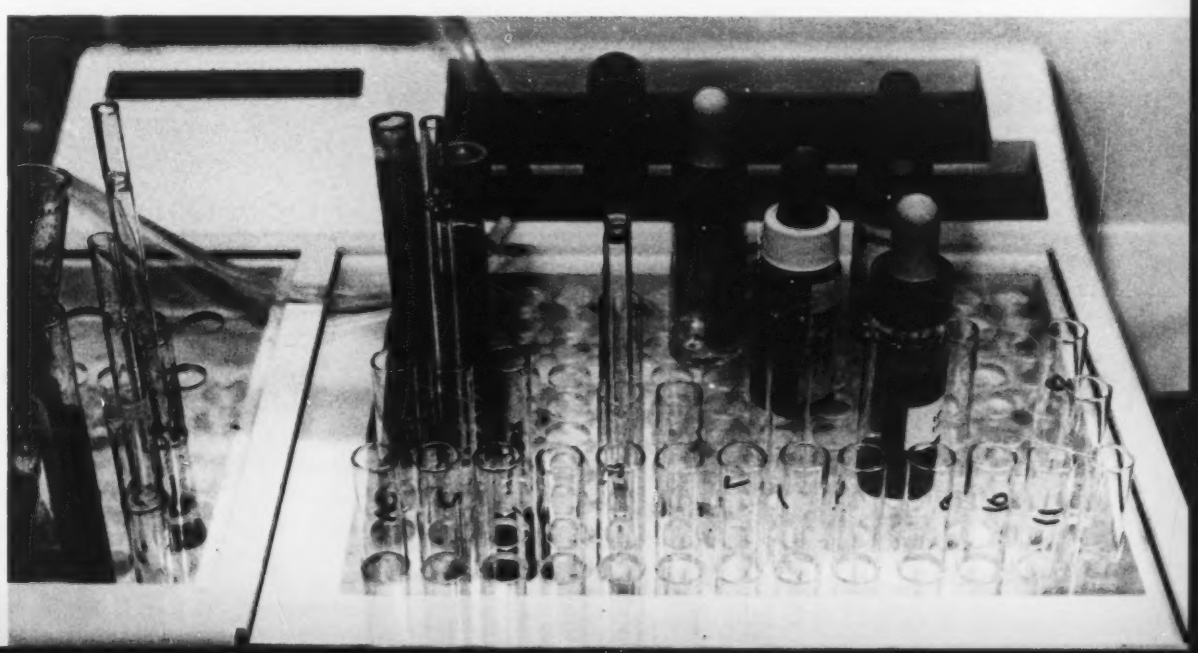
We have audited the accompanying balance sheets of American Association of Blood Banks (the "Association," an Illinois not-for-profit corporation) as of September 30, 1990 and 1989, and the related statements of revenues and expenses, and changes in fund balance and cash flows for the years then ended. These financial statements are the responsibility of the Association's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with generally accepted auditing standards. Those standards require that we plan and perform an audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of American Association of Blood Banks as of September 30, 1990 and 1989, and the results of its operations and its cash flows for the years then ended, in conformity with generally accepted accounting principles.

Our audit was made for the purpose of forming an opinion on the basic financial statements taken as a whole. The supplemental schedule is presented for purposes of additional analysis and is not a required part of the basic financial statements. This information has been subjected to the auditing procedures applied in our audit of the basic financial statements and, in our opinion, is fairly stated, in all material respects, in relation to the basic financial statements taken as a whole.

Arthur Andersen & Co.
Washington, DC
December 21, 1990



# American Association of Blood Banks
# Balance Sheets
# As of September 30, 1990 and 1989

| | 1990 | 1989 |
|---|---|---|
| **ASSETS** | | |
| **CURRENT ASSETS:** | | |
| Cash and cash equivalents | $ 79,366 | $ — |
| Investments (Note 3) | 1,258,144 | 1,187,331 |
| Accounts receivable | 267,181 | 340,965 |
| National Blood Exchange receivables | 1,327,255 | 1,580,236 |
| Publications inventory, at cost | 451,242 | 474,810 |
| Prepaid expenses and other | 294,592 | 216,197 |
| Cash and investments of AABB Foundation | — | 1,091,246 |
| Total current assets | 3,677,780 | 4,890,785 |
| **PROPERTY:** | | |
| Furniture, equipment and leasehold improvements, at cost | 905,436 | 815,414 |
| Accumulated depreciation and amortization | (388,650) | (373,598) |
| Property, net | 516,786 | 441,816 |
| **INTANGIBLES (Note 2)** | 429,379 | 464,194 |
| **Total assets** | $4,623,945 | $5,796,795 |
| **LIABILITIES AND FUND BALANCE** | | |
| **CURRENT LIABILITIES:** | | |
| Current portion of capitalized lease obligations | $ 15,921 | $ 19,360 |
| Accounts payable and accrued expenses | 347,738 | 519,990 |
| National Blood Exchange accounts payable | 768,220 | 814,385 |
| Unearned revenue— | | |
| Membership dues | 360,951 | 340,049 |
| Annual meeting | 1,094,748 | 1,075,224 |
| Other | 131,518 | 104,927 |
| Unearned revenue—AABB Foundation | — | 17,715 |
| Total current liabilities | 2,719,096 | 2,891,650 |
| **LONG-TERM PORTION OF CAPITALIZED LEASE OBLIGATIONS** | 5,897 | 19,882 |
| Total liabilities | 2,724,993 | 2,911,532 |
| **FUND BALANCES:** | | |
| Undesignated | 1,413,227 | 1,355,592 |
| Designated—Acquisition of building (Note 1) | 500,000 | 400,000 |
| Designated AABB Foundation | — | 1,073,531 |
| Donated funds | — | 56,140 |
| Unrealized loss on equity securities (Note 3) | (14,275) | — |
| Total fund balance | 1,898,952 | 2,885,263 |
| **Total liabilities and fund balance** | $4,623,945 | $5,796,795 |

*The accompanying notes are an integral part of these balance sheets.*

# American Association of Blood Banks
## Statements of Revenues and Expenses, and Changes in Fund Balance
## For the Years Ended September 30, 1990 and 1989



| | 1990 | 1989 |
|---|---|---|
| **REVENUES:** | | |
| Membership | $1,505,358 | $1,454,143 |
| Publications | 1,982,188 | 827,523 |
| Annual meeting | 1,393,615 | 966,190 |
| National Blood Exchange | 431,520 | 454,679 |
| Interest | 116,747 | 132,123 |
| Technical programs | 324,527 | 352,940 |
| Miscellaneous | 288,589 | 433,328 |
| Donations | 7,500 | 105,600 |
| AABB Foundation (Note 12) | — | 537,652 |
| | 6,050,044 | 5,264,178 |
| **EXPENSES:** | | |
| Member services | 983,506 | 799,582 |
| Publications | 1,037,705 | 480,617 |
| Meeting services | 394,477 | 366,119 |
| Scientific | 715,252 | 822,088 |
| Education | 254,764 | 260,017 |
| Executive management | 412,894 | 302,987 |
| General administration | 1,152,079 | 930,472 |
| National Blood Exchange | 295,166 | 255,113 |
| Annual meeting | 702,706 | 509,632 |
| Realized loss on investments | — | 24,338 |
| AABB Foundation (Note 12) | — | 406,532 |
| | 5,948,549 | 5,157,497 |
| **REVENUES IN EXCESS OF EXPENSES** | 101,495 | 106,681 |
| **FUND BALANCE, beginning of year** | 2,885,263 | 2,745,482 |
| **EQUITY CONTRIBUTION TO NATIONAL BLOOD FOUNDATION (Note 12)** | (1,073,531) | — |
| **UNREALIZED GAIN (LOSS) ON EQUITY SECURITIES (Note 3)** | (14,275) | 33,100 |
| **FUND BALANCE, end of year** | $1,898,952 | $2,885,263 |

*The accompanying notes are an integral part of these statements.*

# American Association of Blood Banks
# Statements of Cash Flows
# For the Years Ended September 30, 1990 and 1989

| | 1990 | 1989 |
|---|---|---|
| **CASH FLOWS FROM OPERATING ACTIVITIES:** | | |
| Revenues in excess of expenses | $ 101,495 | $ 106,681 |
| Noncash items included in revenues in excess of expenses—Depreciation and amortization | 172,982 | 104,023 |
| Changes in assets and liabilities that provided (used) cash— | | |
| Accounts receivable | 73,784 | (19,760) |
| National Blood Exchange receivables | 252,981 | 278,142 |
| Inventories | 23,568 | (76,263) |
| Prepaids | (78,395) | (43,683) |
| AABB Foundation—total assets | — | (129,467) |
| Accounts payable and accrued expenses | (172,252) | (4,466) |
| National Blood Exchange payables | (46,165) | 70,150 |
| Unearned revenue—dues | 20,902 | (20,105) |
| Unearned revenue—annual meeting | 19,524 | 206,732 |
| Unearned revenue—other | 26,591 | 33,508 |
| Provision for unrealized loss on equity securities | (14,275) | 33,100 |
| AABB Foundation—total liabilities | — | (1,653) |
| Net cash provided by operations | 380,740 | 536,939 |
| **CASH FLOWS FROM INVESTING ACTIVITIES:** | | |
| Purchase of investments, net of sales | (70,813) | (215,424) |
| Purchases of fixed assets, net | (213,137) | (176,901) |
| Purchase of intangibles | — | (464,194) |
| Net cash used in investing activities | (283,950) | (856,519) |
| **CASH FLOWS FROM FINANCING ACTIVITIES:** | | |
| Payments on capital lease obligations | (17,424) | (15,883) |
| Net cash used in financing activities | (17,424) | (15,883) |
| **NET INCREASE (DECREASE) IN CASH** | 79,366 | (335,463) |
| **CASH, beginning of year** | — | 335,463 |
| **CASH, end of year** | $ 79,366 | $ — |

**SUPPLEMENTAL DISCLOSURE OF SIGNIFICANT NONCASH TRANSACTIONS:**

As discussed in Note 12 to the financial statements, during the year ended September 30, 1990, the equity of the AABB Foundation was transferred to the National Blood Foundation.

*The accompanying notes are an integral part of these statements.*

# American Association of Blood Banks
# Notes to Financial Statements
# As of September 30, 1990 and 1989



## 1. ORGANIZATION AND SIGNIFICANT ACCOUNTING POLICIES:

**Organization**

The American Association of Blood Banks (the "Association") was incorporated under the laws of Illinois on November 5, 1958, as a not-for-profit membership organization of operating blood banks and other blood bankers. The general purposes of the Association are to develop and recommend standards regulating the practice of blood banking, to sponsor and support programs for the testing of blood, to promote public health, to maintain the National Blood Exchange, and to conduct numerous programs for communication and education among the Association's members and the public.

**Basis of Presentation**

The accompanying financial statements present the operations of the Association. Certain reclassifications of prior-year balances have been made to conform with the fiscal year 1990 presentation.

**Revenue Recognition**

Membership dues received in advance for the following fiscal year are recorded as unearned revenue. Membership dues are recognized as revenue over the period to which the dues apply. Revenue earned on the viral hepatitis survey programs is deferred until the conclusion of each annual survey. Subscriptions to *Blood Bank Week* and the FAX Network are recorded as deferred income and recognized ratably throughout the fiscal year based upon subscription anniversary dates. Subscriptions to *Transfusion* are recorded as deferred income and recognized ratably throughout the calendar year based upon the number of issues published in that year.

**Annual Meeting Revenue and Expenses**

Revenues received and expenses incurred in advance for the Association's annual meetings and other programs in the following fiscal year are recorded as unearned revenue and prepaid expenses, respectively, until the related event has occurred.

**Designated Fund Balance**

During fiscal 1990, the Association's Board of Directors approved the additional designation of $100,000 for the acquisition of a building.

**Depreciation and Amortization**

Furniture and equipment is depreciated using the straight-line method over estimated service lives of five to ten years. Leasehold improvements and equipment under capital leases are amortized over the lesser of the lease term or the estimated useful life.

**Cash Flows**

The Association considers all highly liquid debt instruments purchased with a maturity of three months or less to be cash equivalents. The Association does not consider money market funds contained in its investment portfolio to be cash equivalents as they are considered part of an overall investment portfolio.

## 2. INTANGIBLE ASSETS:

In June 1989, the Association purchased the rights to publish the journal *Transfusion*, as well as related intangible assets, for total consideration of $464,194. The acquired intangible assets, which consist primarily of subscription lists, are being amortized over their estimated useful lives of ten years commencing with the publication of the first issue in January 1990. Amortization expense for the year ended September 30, 1990, was $34,815.

## 3. INVESTMENTS:

Investments consist primarily of money market funds, short-term corporate and government bonds and equity securities. Money market funds are carried at cost, which approximates market. Debt securities are carried at cost, which, for some securities, is above market value. The Association intends to hold these securities until maturity, at which time the cost basis would be recovered. Equities are carried at lower of cost or market. During fiscal year 1988, the aggregate market value of the Association's equity securities declined approximately $33,100 below the original cost. The adjustment to recognize the decline has been reflected as a direct reduction to fund balance. During fiscal 1989, these investments were sold for a realized loss of $24,338, which is reflected in the statement of revenue and expenses, and changes in fund balance. During fiscal year 1990, the aggregate market value of the Association's equity securities declined $14,275 below the original cost. The adjustment to recognize the decline has been reflected as a direct reduction to the fund balance in the accompanying statements. Amounts at September 30, 1990, consisted of the following.

| Association | Cost | Market |
|---|---|---|
| Money market funds | $ 496,337 | $ 496,337 |
| Debt securities | 500,753 | 493,711 |
| Equity securities | 275,330 | 261,053 |
| | $1,272,420 | $1,251,101 |

## 4. INSURANCE REIMBURSEMENT:

During the 1989 fiscal year, the Association received an insurance reimbursement in the amount of $83,629. The reimbursement represents a claim for recovery of losses from the defalcation of one of the Association's former employees. These losses include realized loss on investments in the amount of $24,338. (See Note 3.)

The insurance reimbursement is included in miscellaneous revenues in the accompanying financial statements.

## 5. FDA CONTRACT:

The Association was awarded a contract from the Food and Drug Administration in December 1988 to study the prevalence of the HIV antigen in asymptomatic anti-HIV negative blood donors. The contract was a one-year cost reimbursement contract in the amount of $535,996. The contract was extended through June 1990, when it expired. The Association was reimbursed for costs in the amount of $32,130 and $262,087 for fiscal years 1990 and 1989 respectively.

## 6. NATIONAL BLOOD EXCHANGE:

The National Blood Exchange operates as a clearinghouse for the shipping and receiving of blood units by participating blood banks. Processing and service fees are charged to receiving blood banks for each unit of blood received by them and are paid through the National Blood Exchange to the shipping blood banks.

## 7. RESTRICTION ON CASH:

The Association is required to maintain a compensating cash balance in the amount of $100,000 at all times for its sweep cash account.

## 8. LEASE COMMITMENTS:

At September 30, 1990, the Association was obligated under noncancelable operating leases for equipment and office space, which expire over the next two years.

The Association leases various equipment under capital leases expiring in 1991. The assets under capital leases are recorded at the lower of the present value of the minimum lease payments or the fair value of the asset.

Minimum future rental payments under the operating leases and capitalized leases for each of the next two years and in total, as of September 30, 1990, are summarized below.

| Year ended September 30 | Operating leases | Capital leases |
|---|---|---|
| 1991 | $ 363,768 | $ 15,921 |
| 1992 | 212,198 | 7,635 |
| Total minimum future rental payments | $ 575,966 | $ 23,556 |
| Less—Amount representing interest | | 1,738 |
| Present value of future lease payments | | $ 21,818 |

Total rental expense for office and equipment operating leases was approximately $480,387 and $320,863 for the years ended September 30, 1990 and 1989, respectively.

## 9. PENSION PLAN:

The Association has a defined contribution pension plan covering substantially all full-time employees. The Association's annual contribution, as defined in the plan, is based on certain percentages of the participants' compensation for the preceding plan year. Benefits related to employer contributions begin vesting after two years of service and become fully vested at seven years. Pension expense was $63,112 and $44,406 for the years ended September 30, 1990 and 1989, respectively.

## 10. INCOME TAX STATUS:

The Association is exempt from Federal income taxes under the provisions of Section 501(c)(3) of the Internal Revenue Code.

## 11. CONTINGENCIES:

The Association is a named party in several civil suits alleging negligence relating to the testing, screening, and distribution of blood products. The damages claimed under these suits are in excess of the Association's current insurance limits. Counsel has indicated that it is unable to currently determine the exposure, if any, to the Association. The Association intends to vigorously defend itself against these claims and believes that the claims will not have a material adverse impact on the Association.

### Insurance

The Association arranged for general liability insurance coverage to cover the setting of standards, failure to provide warnings, licensing or certifying on August 31, 1990, which is retroactive to December 20, 1989. The Association's insurance coverage is on a claims-made basis. Should the claims-made policy not be renewed or replaced with equivalent insurance, occurrences during its term but asserted subsequently will be uninsured. This policy period expires August 31, 1991, and the policy has two one-year renewal periods. Any suits arising from the aforementioned conditions before August 31, 1990, may not be covered by the new insurance. Management is not aware of any actions relating to these conditions which would potentially require recognition or disclosure in the financial statements. Management is unable to estimate the potential loss from unasserted claims.

## 12. NATIONAL BLOOD FOUNDATION:

In May 1990, the National Blood Foundation ("NBF"), a charitable trust indenture, was formed to raise funds through public and private support and to provide research grants in the blood banking field. These activities were formerly carried out by the AABB Foundation.

NBF's Board is comprised of 11 trustees who are appointed by the Association's president and approved by the Association's Board of Directors. Two members, the president-elect and treasurer, of the Association's Board of Directors are also members of NBF's Board of Trustees.

In connection therewith, the Association's Board of Directors approved the transfer of the equity of the AABB Foundation to NBF. It was the intention of the Association's Board of Directors to form NBF as of the beginning of fiscal year 1990, though the formation was not completed until May 21, 1990. As such, the accompanying financial statements reflect the operations of NBF as if the equity contribution of the former AABB Foundation had occurred on October 1, 1989. At September 30, 1990, the net assets of the NBF were $1,245,362.

## 13. SUBSEQUENT EVENT:

Subsequent to year-end, the Association entered into a purchase agreement for an office building located in Bethesda, Maryland, in exchange for consideration of $4.1 million. The Association is currently renting office space in Rosslyn, Virginia, and has been contemplating purchasing a building.

# 1989-1990 SUSTAINING MEMBERS



The following individuals and institutions were AABB Sustaining Members and contributors in 1990. Sustaining membership indicates support of the principles, programs and objectives of the AABB. Funds enable Association activities not otherwise possible.

**INDIVIDUAL SUSTAINING MEMBERS-UNITED STATES**

Loolseged Abebe, MD
New York, NY

Robert Abodeely, PhD
Del Mead, NJ

Arnold Abrams, MD
Santa Monica, CA

Loren Acker
Tucson, AZ

Jose Acosta-Olmeda, MD
Silvis, IL

Robert Adams, MD
Montgomery, AL

A. J. Adams
Orlando, FL

Maureen Ahler, BS, MT(ASCP)
Carson, CA

Anwar Ahmad, MD
Syracuse, NY

Parveen Ahmed, MD
St. Louis, MO

Clarence Alfrey, MD
Houston, TX

Peter Aliferis, MD
Alpena, MI

James Almas, MD
Claremont, CA

Arthur Altman, MD
Phillipsburg, NJ

Daniel R. Ambruso, MD
Denver, CO

Ebrahim Amir-Mokri, MD
Chicago, IL

Mariane Anderson
Cambridge, MA

Constance Anderson, MT(ASCP)SBB
St. Joseph, MO

Judy Angelbeck, PhD
Huntington, NY

Axel Arndt
Tujunga, CA

Ellen Arnold, BS
Philadelphia, PA

Ulysses Arreteig, MD
Pensacola, FL

Thomas Asher, PhD
Sherman Oaks, CA

John Ashworth, PhD
Berkeley, CA

Sarah Asnicar, BA, BB(ASCP)
Anderson, IN

Fleur Aung, MD
Mesquite, TX

Frank Avery, MD
Raleigh, NC

Janet Ayello, MT(ASCP)
Hartsdale, NY

Loren Ayres, MD
Arcadia, CA

Charlotte Bailey, RN
Kenwood, CA

John Baker, MD
Turlock, CA

Bayani Balderrama, MT
Summit, NJ

Caroline Ballweg, MT(ASCP)
Colton, CA

Sandra Bare
Reading, PA

Michael Barlow
Dayton, OH

James Barnawell, MD
Crossville, TN

Taylor Barnes
Pensacola, FL

Asa Barnes Jr., MD
Long Beach, CA

Susan Barquist, MS
Berkeley, CA

Alice Barr, SBB(ASCP)
Lakeland, FL

James Barrow, MD
Miami, FL

William Bauer Jr.
Reading, PA

Sylvio Beaudoin
Stoughton, MA

Julie Beck, MT(ASCP)SBB
San Antonio, TX

James Beecham, MD
Las Vegas, NV

Lekhram Behari
Corona, NY

Linda Belcher, MT(ASCP)SBB
Oklahoma City, OK

William Beldin, MD
Iron Mountain, MI

Carol Bell, MD
Culver City, CA

J.A. Bell, MT(ASCP)SBB
Greendale, WI

Kimberly Benjamin, MT(ASCP)SBB
Beverly, MA

Catherine Benoit
Raritan, NJ

Eugene Bentley Jr., MD
West Chester, PA

F.M. Benton, MT(ASCP)SBB
Dallas, TX

James Bergin, MD
Kansas City, KS

Patricia Berlinski, MT(ASCP)
Stockholm, NJ

Ralph Bernier, MD, PhD
Ft. Sam Houston, TX

Patricia Berry
Morrow, GA

Lucia Berte, MT(ASCP)SBB
Elmhurst, IL

Rodger Bick, MD
Bakersfield, CA

Robert Biondi, MD
Philadelphia, PA

Robin Biswas, MD
Bethesda, MD

Fe Bittel, MT(ASCP)SBB
Des Plaines, IL

Evelyn Bizjak, RN
Burlingame, CA

Joseph Black, MD
Hilton Head, SC

Lynn Blake, MD
Knoxville, TN

Patricia Blank
St. Louis, MO

Janice Blazina, MD
Worthington, OH

Olga Blumenfeld, PhD
New York, NY

Paul Bogikes
Rolling Hills, CA

Michael Bongiovanni, MD
Hershey, PA

William Borer, MD
Philadelphia, PA

Joseph Bove, MD
Hamden, CT

Rebecca Bowman, RN
Pittsburgh, PA

Herbert Bowman, MD
Lemoyne, PA

James Boyle
Radnor, PA

Carol Bradley, MT(ASCP)SBB
Kalamazoo, MI

Richard Bradley, MD
Lake Forest, IL

Barbara Bradley, BSN
Columbus, OH

Hayden Braine, MD
Baltimore, MD

Timothy Branigin, MD
Flint, MI

Ralph Braund Jr., MD
Sheffield, AL

Edward Breakell, MD
Stamford, CT

Michael Beard, MS, MT(ASCP)SBB
Hudson, WI

Diana Breslich, MD
Scottsbluff, NE

Marilyn Brewer, MT(ASCP)
South Lake Tahoe, CA

Geraldine Briggs, MT(ASCP)SBB
Tucson, AZ

William E. Bristow, MT(ASCP)
Bradenton, FL

Derek Brook, DVM
Covina, CA

Leon Brown, MD
Cleveland, OH

Stephen Brown, MT(ASCP)SBB
Shreveport, LA

Deborah Brown, MT(ASCP)SBB
Tucker, GA

Daniel Brubaker, DO
Spokane, WA

Rebecca Bruggner, RN
Bradenton, FL

James Brumfield, MD
Healdsburg, CA

Edward Bryant, MT(AMT)
Broken Arrow, OK

Lynda Bucciarelli, MT(ASCP)SBB
Rockville, MD

Richard Buchanan, MD
Elyria, OH

Isabelle Buehl, MD
Indianapolis, IN

Elaine Bukowski, MD
Prospect, KY

Stephen Bulova, MD
Philadelphia, PA

A.M. Burford Jr., MD
Florence, AL

Sharon Burke, MD
Evanston, IL

Rhoda Burns, RN
Palo Alto, CA

Edward Burnside, MT(ASCP)
Belle Glade, FL

William Butscher Jr., MD
Ocala, FL

Thomas Callihan, MD
Germantown, TN

Leila Campbell
Silver Spring, MD

Stephen Capon, MD
La Jolla, CA

Joseph Carberry, MD
Los Angeles, CA

Robert Carnighan, MD, PhD
Goshen, KY

Pramod Carpenter, MD
Rochester, NY

Charles Carson, MD
Ridley Park, PA

Thomas Carson, MD
Metairie, LA

Johnny Carter, MT(ASCP)
Detroit, MI

Jack Cassorla
Worchester, MA

C. Catassi
San Leandro, CA

R. Chachowski, MT(ASCP)
Raritan, NJ

Stuart Chamblin Jr., MD
San Antonio, TX

James Changus, MD, PhD
Lake Worth, FL

Robert Chapman, MD
Denver, CO

Chao Cheng
Westlake Village, CA

Paul Cherney, MD
Abington, PA

Michael W. Chopek, MD
Dedham, MA

James Christensen
Chesterland, OH

Marion Chung, MT(ASCP)SBB
Detroit, MI1

Winthrop Churchill, MD
Boston, MA

Sharon Clark Novak, MT(ASCP),SBB
Martinsburg, WV

J. Clear, MT(ASCP)SBB
Stanton, CA

Douglas Clibourn
Hingham, MA

H.P. Clifton Jr., MD
Longview, TX

Timothy Coburn, MT(ASCP)
Lincolnwood, IL

Kevin Cockerill, MD
Ponte Vedra, FL

Mary Coggin
Axtell, TX

Mark Cohan, MD
Boca Raton, FL

Elias Cohen, PhD
Buffalo, NY

Phillip Collins, MD
Austin, TX

Esther Collins
Pacifica, CA

Sharon Collins, MT(ASCP)
Montvale, NJ

Robert Combs
Tacoma, WA

Martha Combs, BS, MT(ASCP)
Raleigh, NC

Charles Conlon, MD
Houston, TX

J. Daniel Connor
Glenview, IL

Joan Coogan, MD
Bristol, TN

Donald Cook, MD
Phoenixville, PA

E. Shannon Cooper, MD, JD
New Orleans, LA

James Cooper
Hershey, PA

Joseph Cooper, MD
Philadelphia, PA

Judith Correll, RN
Reading, PA

Irby Cossette, MD
Spokane, WA

Edmundo Cox, MT(ASCP)SBB
Joppatowne, MD

David Craig, MD
Tallahassee, FL

James Crispen, MD
Harrisburg, PA

Carl Critz, MD
Stockton, CA

Tammy Croak
Jacksonville, FL

Robert Cross, MD
Haverhill, MA

James Crowley, MD
Providence, RI

Gabino Cuevas, MD
Boynton Beach, FL

Edwin Cunningham, MD
Fargo, ND

Charles Curtin, MD
Scranton, PA

Fred Darr II, MD
Arlington, VA

Alan Dascomb, MD
Metairie, LA

Richard Data, MD
Conway, SC

Susan Davy, MD
Kingwood, TX

David De Jongh, MD
Miami, FL

Lillian de Paredes, MD
Hackensack, NJ

Robert DeLashmutt, MD
Atlanta, GA

Phillip Deos, MD
Modesto, CA

Gloria Deuell
Corvallis, OR

James DeVillier, MD
Georgetown, TX

Yvette Dias, MT(ASCP)SBB
San Rafael, CA

Merlinda Diaz, MS
Los Angeles, CA

Aline Dingle, RN
Los Angeles, CA

Gwendolyn DiPietro
Naples, FL

Patricia Dobson, MT
Hewitt, NJ

Donald Doddridge
St. Petersburg, FL

William Dolan, MD
Arlington, VA

Melinda Dolor, MD
Columbus, OH

Robert Donohue, MBA
New York, NY

Lillian Donovan
Everett, MA

Donald Dore Jr., MD
Pascagoula, MS

Nancy Dotlich
Indianapolis, IN

Edward Downey, Sr.
Hudson, FL

Robert Dracker, MD
Syracuse, NY

E. Arthur Dreskin, MD
Greenville, SC

William Droke, MD
Santa Fe, NM

John Drury
Houston, TX

Betty Duckett
Universal City, TX

Joseph Dudley, MD
Winston-Salem, NC

Keith Duncan, MD, PhD
Burlingame, CA

Dale Dunn, MD
Lubbock, TX

Nongnooch Dunn, MD
Melbourne, FL

Michelle Dupuis, MT(ASCP)SBB
Providence, RI

Janice Dutcher, MD
Bronx, NY

Michael Dwyer, MBA
West Haven, CT

Ron Dziedziula
Arvada, CO

R. Diane Earp, MT(ASCP)SBB
Sterling, VA

Regine Eberhardt
New York, NY

David Eckert, MD
Dearborn, MI

Dowie Ecroyd, MT
APO New York, NY

Sandra Edelbrock, MT(ASCP)SBB
Worcester, MA

Kenneth Edwards
Newark, DE

Jordan Eggers, MD
Germantown, TN

Charles Ellis, MD
Boston, MA

Ishak Enggano, MD
Tupelo, MS

Garth Englund, MD
Ft. Collins, CO

Gene Erickson
Greenville, SC

Danilo Escaro, MD
York, PA

Leonarda Escorpizo
Philadelphia, PA

Catherine Estep, RN
Charleston, SC

Cynthia Evans, CLS, BB(ASCP)IH
Mechanicsburg, PA

Gene Ewing, MD
Dallas, TX

J.I. Eyer, MT(ASCP)
Chicago, IL

Emilio L. Fanjul
Cherry Hill, NJ

Francis Fattori
Drexel Hill, PA

Gregory Faust
Broadview, IL

Ronald Faust, MD
Rochester, MN

Kenneth Fawcett, MD
Grand Blanc, MI

Alberto Fernandez, MD
Bayamon, PR

Janice Fessel, MT(ASCP)SBB
Floyds Knobs, IN

Marc Filstein, MD
Reading, PA

Beverly Fiorella, MT(ASCP)SBB
Oak Park, IL

Joseph Fiorillo, MT(ASCP)SBB
Ardsley, NY

Myron Fisher, MD
Bakersfield, CA

Lyman Fisher, MD
Richmond, VA

Mary Fisher
Fayetteville, NC

Marshall Flam, MD
Fresno, CA

June Fletcher, MT(ASCP)SBB
San Jose, CA

Michael Flom, PhD
Calabasas, CA

Mari Flom
Calabasas, CA

Glenn Floyd, MT(ASCP)SBB
Birmingham, AL

John Forbes, MBA
Evanston, IL

Gustavo Forero
Coral Gables, FL

Marla Fosdick, MT(ASCP)SBB
Wilmington, DE

Charles Foster, MD
Jackson, TN

Abe Fox, MD
Bismark, ND

Claudia Frederick
Baltimore, MD

Jeffrey Freed, MD
University Heights, OH

Mei-chien Fucci, MD
Unionville, CT

James Funkhouser, MD
Dayton, OH

Peter Gale, MD
Kingsport, TN

William Galloway, MD
Denver, CO

Margi Gandolfi
New York, NY

R. Gangadhar, MD
Ft. Wayne, IN

M. Gardner, MT(ASCP)
Girard, OH

Jack Garfinkle, MD
Sherman Oaks, CA

Daniel Garner, PhD
Germantown, MD

Ronnie Garner, MD
Albuquerque, NM

Patricia Genovese, MT(ASCP)BB
Ford, NJ

Antonio German, MD
Erie, PA

Joan Gibble, MD
York, PA

Sarah Gibbon, MLT(ASCP)
Monroe, GA

Frances Gibbs, MT(ASCP)SBB
Salt Lake City, UT

Melanie Gidden, MHS, MT(ASCP)SBB
Baton Rouge, LA

Marilyn Giddings, BS
New York, NY

Louis Gierke, DO
Hinsdale, IL

Robert Giertz, BS
Kingman, KS

Bal Gilja, MD
Elmhurst, NY

Laura Gindy, MT(ASCP)SBB
Encino, CA

Gerald Giordano, MD
Tucson, AZ

Catherine Giunta, RN
Los Angeles, CA

Armand Glassman, MD
Nashville, TN

Jacinto Gochoco, MD
York, PA

Richard Goldhaber
Lake Forest, IL

Manuel Gomez, MD
Ronceverte, WV

Rosa Gonzales, MT(ASCP)
Waldwick, NJ

Lawrence Goodnough, MD
Cleveland, OH

Elaine Gordon, MT(ASCP)SBB
Cleveland, OH

John Gorman, MD
New York, NY

Franz Gosset, MD
Monroe, WI

C.M. Gottfrey, RN
San Diego, CA

Mary Gourley, MT(ASCP)
Pittsburgh, PA

Mary Grandy, JD
Washington, DC

Barbara Green, MT(ASCP)
Philadelphia, PA

Trudell Green, MT(ASCP)SBB
Austin, TX

John Greenleaf
Malvern, PA

K.R. Gregory, MT(ASCP)SBB
Seminole, FL

Mary Gresik, MD
Houston, TX

John Griep, MD
East Chicago, IN

Kay Griffin
San Mateo, CA

Bobby Grigsby, CPA
Houston, TX

Bill Grimes
Tyler, TX

Alfred Grindon, MD
Atlanta, GA

Irwin Gross, MD
Orono, ME

Brenda Grossman, MD
Bethesda, MD

Mervin Grossman, MD
Mesquite, TX

Joseph Guillory Jr., MD
Baton Rouge, LA

Jeane Gunter
Westerville, OH

John Guthrie
Amarillo, TX

Emanuel Hackel, PhD
East Lansing, MI

W. E. Haesler Jr., MT(ASCP)SBB
Bryn Mawr, PA

Michael Hafley
Clearwater, FL

Thomas Haley
Bensenville, IL

Velda Hamilton
Berkeley, CA

John Hamilton, MD
Miami, FL

Frank Hamilton, MD
Akron, OH

Susan Hand, MT(ASCP)SBB
Dayton, OH

Michael Hannegan, MD
Chester Springs, PA

E. Hansbarger Jr., MD
Charleston, WV

Margaret Hanson, MT(ASCP)SBB
Mound, MN

William Harada, MD
Easton, PA

Clarke Harding Jr.
Collinsville, IL

Virginia Hare, MT(ASCP)SBB
Lithonia, GA

J. Harford
Charlotte, VT

Mary Sue Harltey
Ft. Lauderdale, FL

William Harrer, MD
Camden, NJ

Earl Harris
Abington, PA

Chantal Harrison, MD
San Antonio, TX

Marta Harshbarger, MT(ASCP)SBB
Federal Way, WA

Donald Hart
Oakland, CA

Thomas Harwood, MD
Chicago, IL

B. Hatcher, MT(ASCP)SBB
Houston, TX

Stephanie Hatfield, MD
Paducah, KY

Johnna Hawk, MT(ASCP)
Rocky Hill, NJ

Raymond Hawley, MD
Wichita, KS

Debra Haymons
Oxnard, CA

David Hebert
Alexandria, LA

Dorothy Heindsman, MT(ASCP)SBB
Arlington, VA

M. Helgeson, MS, MT(ASCP)SBB
Minneapolis, MN

William Heller, MT(ASCP)SBB
Ft. Worth, TX

Malcolm R. Helton, MS, MT(ASCP)SBB
Montgomery, AL

Kathryn Hemken, MT(ASCP)
Buffalo Grove, IL

Bernice Hemphill
San Francisco, CA

Carol Henderson, MT, BB(ASCP)
Wichita Falls, TX

Georgia Henderson, MS, MT(ASCP)
New York, NY

Brenda Hendrickson
Indianapolis, IN

John Henry, MD
Syracuse, NY

William A. Henthorne, MD
Stow, OH

Gene Herbek, MD
Sioux City, IA

Eugene Heresa, MT(ASCP)SBB
Parker, CO

John Herrington III, MD
Richmond, VA

John Hess, MD
Cotati, CA

Gerard Hilbert, MD
Pensacola, FL

Norwood Hill, MD
Dallas, TX

James Hill, MD
Worthington, OH

Richard Hill III, SH(ASCP)
Tulsa, OK

John Hilsenbeck, MD
Memphis, TN

Sarah Hixon
Greenville, SC

N.D. Hocker, MT(ASCP)SBB
Lizton, IN

Gerald Hoeltge, MD
Cleveland, OH

Jack Hoffer, MT(ASCP)SBB
New York, NY

Genevieve Hoinski, MT(ASCP)BB
Mayfield, PA

James Holland
San Franciso, CA

Laura Hollis, MT(ASCP)SBB
St. Louis, MO

Wallace Holthaus, MD
Harrisonburg, VA

Gregory Homison, PhD
Glen Cove, NY

Glenn Hooper, MD
Tampa, FL

Esther Hopely
Philadelphia, PA

Pamela Horton
Tyler, TX

Rita Horwitz
Cherry Hill, NJ

Joyce Hostetler
West Liberty, OH

Kathleen Houston, MT(ASCP)SBB
Littleton, CO

Janet Howard, MT(ASCP)SBB
Owensboro, KY

Robert Howell, MD
Louisville, KY

Charlene Hubbell, MT(ASCP)SBB
Syracuse, NY

Douglas Hubner, MD
Tulsa, OK

Berta Huggins, PhD
Winston-Salem, NC

Sharada Hulbanni, MD
Detroit, MI

Sing Ong Ie, MD
Ft. Belvoir, VA

Thomas Indovina
Norfolk, VA

Samuel Insalaco, MD
Tacoma, WA

Michael Irwin, MB, MPH
Washington, DC

Janet Ishimoto, MT(ASCP)SBB
Silver Spring, MD

Thomas Jackson, MD
Ross, CA

Louis Jakovic, MD
Albany, NY

James A. Jamison II
Ft. Lauderdale, FL

Joann Janas, MD
Rochester, NY

Arthur Jay, MD
Columbus, IN

Leigh Jefferies, MD
Philadelphia, PA

K.W. Jennings, MT(ASCP)SBB
Wichita, KS

Hanne Jensen, MD
Sacramento, CA

John Jerome
Eureka, CA

Wayne Jessee, MD
Staunton, VA

Mary Johnson, MT(ASCP)SBB
Houston, TX

Debra Johnson, SBB(ASCP)
Seattle, WA

Roderick Johnson, MD
Portland, OR

Ramona Johnson
West Hartford, CT

Elizabeth Jones
Anthony, FL

Francis Jones, MD
Knoxville, TN

Henry Jordan, MD
Wilmington, NC

Darol Joseff, MD
Santa Barabara, CA

Aaron Josephson, MD
Mobile, AL

Colleen Justice, MT(ASCP)
Phoenix, AZ

Michael Kafka, MD
Sioux City, IA

Norman Kalmin, MD
San Antonio, TX

Joseph Kane
Canoga Park, CA

Edward P. Kang, PhD
Garden City, NY

George Katibah, MD
Jacksonville, FL

Louis Katz, MD
Davenport, IA

Mary Kaufman, MD
Brooklyn, NY

Louise Keating, MD
Cleveland, OH

Kathey Keeter, MT(ASCP)SBB
Oklahoma City, OK

Sherman Kennedy
Kansas City, KS

Melanie Kennedy, MD
Columbus, OH

Robert Kenney, MD
Providence, RI

Diane Kern
Trenton, NJ

Sherwin Kevy, MD
Boston, MA

NurJehan Khan, MD
Maumee, OH

Elizabeth Khayat, MD
Jamaica, NY

Byung Kim, MD
Cumberland, RI

Haewon Kim, MD
Philadelphia, PA

Joseph Kim, MD
Sheffield, AL

Dalton Kinsella Jr, MD
Indiatlantic, FL

Billy Kirksey
Albany, GA

Frances Kittlemann, MS
Washingtonville, NY

Larry Klein, MD
Youngstown, OH

Lars Kleppe, MD
Petoskey, MI

Rita Klym, BS, MT(ASCP)
Springfield, OR

William Knapp, MD
Modesto, CA

Jean Marie Knight, MT(ASCP)SBB
Waco, TX

Arne Knutsen, MD
National City, CA

Patricia Kocal, MT(ASCP)SBB
Fountain Valley, CA

Richard Kolecki, MD
Voorhees, NJ

Jerry Kolins, MD
La Jolla, CA

Stanley Kozikowski
Adelphi, MD

Helmut Kraemer, MD
Hollywood, FL

Norman Kramer, MD
Burtonsville, MD

Ramon Kranwinkel, MD
Danbury, CT

Sharolyn Kriger, RN
Burlingame, CA

J. Krotzman, MT(ASCP)SBB
Madison, WI

Margot Kruskall, MD
Boston, MA

Constance Kubis, MT
Alpharetta, GA

Daniel Ladd, MD
Temple, TX

Sharon Lambdin, MT(ASCP)BB
Falls Church, VA

Richard Landau, MD
Asheville, NC

J.T. Lane, PhD
Lauderhill, FL

Adam Lang, MD
Bakersfield, CA

Carol Lanthrum, MT(ASCP)SBB
Tyler, TX

Theis Larsen, MT
Rocky Point, NY

Larry Lasky, MD
Minneapolis, MN

J. Thomas Latham Jr., MD
Greenville, SC

David Lawrence, MD
San Luis Obispo, CA

Suzane Ledin, MT(ASCP)SBB
Rohnert Park, CA

Kil Un Lee, MD
Los Angeles, CA

Moonhi Lee, MD
Hoboken, NJ

J. Michael Lee, MBA
Bethlehem, PA

Helen Lee, PhD
North Chicago, IL

Rogelio Lee
Miami, FL

James Leonard, MD
Clearwater, FL

Muriel Lerch
Yonkers, NY

Stephen Levine, MD
Oklahoma City, OK

Gary Levy, MD
Shreveport, LA

Thomas Liddy, MD
Livingston, NJ

John Lim, MD
Akron, OH

John R. Lindberg
Park City, IL

Gwenn Lindsay, MT(ASCP)SBB
Westerville, OH

Mac Lindsey
Torrance, CA

Ralph Lingeman, MD
Washington, DC

Jamie Lingle, RN
Chicago, IL

Anthony Lisy
Tucson, AZ

R. Little, MD
Zanesville, OH

Linda Lompa
Raleigh, NC

Roland Lonser, MD
Hinsdale, IL

Shelley Looby, MT(ASCP)
Kansas City, MO

Eliud Lopez, MD
Rio Piedras, PR

Luisa Go Lotuaco, MD
Kansas City, MO

Debrean Loy, MT
Germantown, MD

Claudette Lozina, MT
Niagara Falls, NY

Yongae Lucas, MT(ASCP)
Houston, TX

Bonnie Lupo, MS, SBB(ASCP)
Dix Hills, NY

Martha Luther-Argue
Vero Beach, FL

Ronald Mabile
Woodside, NY

Jane Mackey
Topeka, KS

Colin Macpherson, MD
Cincinnati, OH

James MacPherson
Takoma Park, MD

Marlene Magrini-Greyson, MD
Oklahoma City, OK

Russell Mahoney, MD
Des Moines, IA

Rosser Mainwaring, MD
Dearborn, MI

Wilford Maldonado, MD
Lansing, MI

Delores A. Mallory, MT(ASCP)SBB
Rockville, MD

Dale Malloy, DPA, MT(ASCP)SBB
Scottsdale, AZ

Wilbur Malloy, MT
Olney, MD

Gail Mandigo, MT(ASCP)SBB
Fullerton, CA

Ermie Maniacop, MT(ASCP)
Grass Valley, CA

George Mann
Hewlett, NY

Frank Mann, MD
Scottsdale, AZ

Joseph Mann, MD
Grand Rapids, MI

Richard Mansfield, MD
Manitoc, WI

Roberta S. Martin
Belleair, FL

Luz Martinez, MT
San Sebastian, PR

Klaus Mayer, MD
New York, NY

Clyde McAuley, MD
Los Angeles, CA

Terrance McBurney, MD
San Antonio, TX

Joanne McCaffrey, MT(ASCP)BB
Bellmawr, NJ

MaryBeth McCardle
St. Louis, MO

Peggy McCarroll, MT(ASCP)
San Diego, CA

Donald McClure, MD
Denver, CO

Thomas McCormick, MD
Grosse Pointe, MI

Gloria McCrory, MT(ASCP)
Lilburn, GA

Anita McCroskey, RN
Valhalla, NY

Jeffrey McCullough, MD
Minneapolis, MN

Gaye McCutchen, MS
Houston, TX

Brian McDonough
St. Louis, MO

David McGoldrick, MD
Wellesley, MA

Eoline McGowan, MD
Birmingham, AL

John McGrath, MD
Inglewood, CA

Patrick McKenna, MD
Woodbury, NJ

Maureen McKeon, MT
Williams AFB, AZ

James McLaughlin, MD
Wyandotte, MI

William McLendon, MD
Chapel Hill, NC

Bruce McLeod, MD
River Forest, IL

Susan McMahon
Orlando, FL

James McMillan, MD
Lorain, OH

Rene McRogers, MT(ASCP)SBB
West Haven, CT

Richard Meagher, PhD
Louisville, KY

Anne-Marie Meeks
Acton, MA

Angela M. L. Meisse, MT(ASCP)SBB
East Meadow, NY

Raul Mena, MD
Glendale, CA

David Mendoza, MT(ASCP)SBB
Cerritos, CA

Adalberto Mendoza, MD
Ponce, PR

Jay Menitove, MD
Milwaukee, WI

Barbara Merola, MT
New York, NY

Roland Metellus, BB(ASCP)
New York, NY

John Michel, RN
Akron, OH

Elvira Miguel, MT(ASCP)
Indianapolis, IN

David Miller, MD
Lauderhill, FL

Stewart Miller, MD
Toms River, NJ

Karen Miller, MD
Evanston, IL

Jacqueline Miller, MD
Eugene, OR

Joan Mills
Queens, NY

Lulu Mims, MT(ASCP)SBB
St. Louis, MO

Drew Minardi, MT
Saddle Brook, NJ

John Mirandi, MT(ASCP)
Lindenhurst, NY

Jeffrey Miripol
Elkton, MD

Kala Mohandas, MD
Norwood, NJ

Carol Moore
Berkeley, CA

Hugh Moore, MD
Tupelo, MS

Phyllis Morel, MT(ASCP)SBB
Stockton, CA

David Morgan, MD
Englewood, CO

Wayne Morgan Jr.
Huntsville, AL

Susan Morris
Philadelpia, PA

Debra Mortensen
Westmenster, CA

Charles Mosher
E. Greenwich, RI

Amelia Moya
Morris Plains, NJ

S.A. Mullen Jr., MD
Jacksonville, FL

Victor Muller, MD
Carmel, IN

Mary Myers, MT(ASCP)SBB
Martinez, CA

Byron Myhre, MD, PhD
Torrance, CA

Irwin Nash, MD
New Haven, CT

Richard Navota
Davenport, IA

Grace Neitzer, MT(ASCP)SBB
Memphis, TN

Elizabeth Neuhauser, MT(ASCP)
Anchorage, AK

Patricia Newhouse, MD
Sault Ste. Marie, MI

Bruce Newman, MD
Skokie, IL

Pierce Newman Jr., MD
Port Arthur, TX

James Newsome, MD
Birmingham, AL

Charles Nichols, MD
La Crosse, WI

Roy Nomura, MD
St. Louis, MO

Judy Norcia, MT(ASCP)SBB
St. Petersburg, FL

L. Douglas Northcott
Grandview, TX

Robert Novak, MD
Akron, OH

Jeffrey Null, MD
Kingston, PA

Teresa O'Brien, MT
Peekskill, NY

Lauren O'Brien, MD
Santa Monica, CA

Thomas O'Brien, PhD
Raritan, NJ

Hugh O'Connell
Stamford, CT

Michael O'Leary, MD
Syracuse, NY

James O'Shea
Boston, MA

Cynthia Ogden
Westwood, CA

Myrtle Oldham
Brandenburg, KY

Richard Olshock, MD
Wheatridge, CO

Daniel Olson
Dover, OH

John Orrell, (ASCP)SBB
University City, TX

Gerry Oster, MT(ASCP)
Flemington, NJ

Jill Otto, MT
Martinez, CA

Robert Ouwendijk, MD
Somis, CA

Albert Oyama, MD
Lake Oswego, OR

George Padilla, MT(ASCP)
Mililani Town, HI

Lola Palmer, RN
Dayton, OH

Paul Panas, MD
Lehighton, PA

Benjamin Park, MD
LongMeadows, MA

Hollie Parker
San Jose, CA

Lorna Patty, MT
Springfield, VA

Frans Peetoom, MD, PhD
Portland, OR

Samuel Peninger Jr.
Pensacola Beach, FL

Joseph Pennepacker, MD
Sioux City, IA

Samuel Pepkowitz, MD
Los Angeles, CA

Lewis F. Perez
Rio Piedras, PR

Juan Perez, MT(ASCP)
Guaynabo, PR

Bonnie Peterson, RN, MT(ASCP)
Bristol, WI

Kay Peterson, MT(ASCP)
Pleasant Grove, UT

Lawrence Petz, MD
Los Angeles, CA

Frank Pezzlo, MD
Laguna Beach, CA

Bartholomew Philpotts-Kerr
East Patchoque, NY

Jerry Pickrel, MD
Elizabeth City, NC

Frank Pikul, MD
Oklahoma City, OK

Denise Pittiglio, PhD, MT(ASCP)
Baltimore, MD

Richard Pittman, MT(AMT)
Bogalusa, LA

Fred Plapp, MD
Shawnee Mission, KS

Richard Plasse, MT(ASCP)SBB
Los Angeles, CA

Herbert Polesky, MD
Minneapolis, MN

Sandra Poling, MT(ASCP)SBB
Baton Rouge, LA

Barney Poole, MT(ASCP)SBB
Beaumont, TX

Pamela Porter, RN
Davis, CA

William Portman
Pittsburgh, PA

Douglas Posey Jr., MD
St. Joseph, MO

M.A. Pothiawala, MS, MT(ASCP)SBB
Chicago, IL

Edwin Poulsom, MD
Denver, CO

David Powers, MD
Indianapolis, IN

Ann Pratt
St. Louis, MO

Linda Pura, RN, MPA
Los Angeles, CA

Robert Purvis, MD
Modesto, CA

Alam Qadri, MD, FRCP(C)
Youngstown, OH

Felipe Querimit, MD
Denville, NJ

Nelson Quigley, MD
Anaheim, CA

David Rabinowitz, MD
Kings Point, NY

Antonio Rabor Jr., MD
Victorville, CA

Joseph M. Radford, MD
Mesa, AZ

Barbara Radnofsky, JD
Houston, TX

Ranesit Rakheram, BS
Brooklyn, NY

Mildred A. Ramos, MD
Riverside, CA

Richard Rascher, MS
San Francisco, CA

Ramakrishna Reddy, MD
St. Paul, MN

Gary Reeder
Englewood, CO

Lillian Reich, MD
New York, NY

Kathleen Reichert
New York, NY

Gretchen Reidy, MT(ASCP)
Millbrae, CA

Emmett Reilly, MD
Los Angeles, CA

Patsy Reinke, RN
Bismarck, ND

Dennis Reinke, MD
Bismarck, ND

Mary Ellen Reitz, MD
Erie, PA

Stephen Renner, MD
Los Angeles, CA

Carmel Retz, MT(ASCP)SBB
Cedar Rapids, IA

Helen Richards, MD
Demarest, NJ

Anne Richter, BSN
Syracuse, NY

Suzanne Rinehart, MT(ASCP)SBB
Warren, OH

Mario Ritter, MD
Morgantown, WV

Pedro Rivero, PhD
Enano, CA

Jae Ro, MD
Northbrook, IL

Gloria Roberts, RN
New York, NY

Howard Robin, MD
La Jolla, CA

Antonia Robinson
Troy, MI

Beverly Robinson, MS
Pittsburgh, PA

Joyce Rockwell, MLT
Springfield, VA

Jose Rodriguez, MD
Ormond Beach, FL

Irene Roeckel, MD
Lexington, KY

Patricia Rogers, MT(ASCP)SBB
Dallas, TX

Chester Roig, MD
San Antonio, TX

S.D. Rolih, MS, MT(ASCP)SBB
Norcross, GA

Thomas Roosth, MD
San Antonio, TX

William Ross, MD
Virginia Beach, VA

Allan Ross, MT(ASCP)
Tacoma, WA

Denise Ross, MD
Virginia Beach, VA

Ennio Rossi, MD
Chicago, IL

Emily Rossiter, MT(ASCP)
Richmond, VA

Rob Roth, MD
Tacoma, WA

Kate Rothko, MD
Baltimore, MD

Edward Rudnick, MD
Yorktown Heights, NY

Vicentio Sagadraca
Bethesda, MD

Teresa Sammons, MT(ASCP)SBB
Louisville, KY

Carolyn Savarese
Wilmington, DE

Kathleen Sazama, MD
Sacramento, CA

George Schaefer, MD
Clearwater, FL

Donald Schafer, MD
Portland, OR

Harvey Schaffler, MS
New York, NY

Arthur Schantz, MD
Voorhees, NJ

Joseph Schifano, MT(ASCP)SBB
Jackson, TN

Ronnie Schlesinger, MD
Oklahoma City, OK

Arnold Schmidt, MD
Mountaintop, PA

George Schneider Jr., MD
Spokane, WA

E. Schneider, MT(ASCP)
Wilmington, DE

James Schnieders, MS
Rosemont, IL

Maxine Schultz, MA, MT(ASCP)SBB
Bellaire, TX

Richard Schumacher
West Bridgewater, MA

Keith Schwenn, MT(ASCP)SBB
Patterson, NY

Richard Seder, MD
Southborough, MA

Donald Senn, PhD
Ellicott City, MD

Robert Shacklett, MD
Douglasville, GA

Nelofar Shafi, MD
Newington, CT

Arell Shapiro, MD
Long Beach, CA

Dennis Sharkey Jr., MD
St. Mary's, PA

Florence Shaw, MT
Arlington, TX

Jeffrey M. Shear, MD
Elkins, WV

Bradford Sherburne, MD
Brookline, MA

Judith Sherwin, MT(ASCP)SBB
Pittsburgh, PA

R. Shirey, MT(ASCP)SBB
Baltimore, MD

Charles Short, MD
St. Louis, MO

Gerald Shulman, MD
Columbia, SC

William Shutze, MD
Leesburg, FL

Shirley Siegel
Concord, CA

George Sigalos, MD
Exeter, NH

Richard D. Sikon
Pittsburgh, PA

Aina Silenieks, MD
Lincoln, NE

Solomon Silfen, MS
Brooklyn, NY

Arthur Silvergleid, MD
San Bernardino, CA

Toby Simon, MD
Scottsdale, AZ

Henry Simpkins, MD, PhD
Staten Island, NY

Marcus Simpson Jr., MD
Washington, DC

Arthur Sitelman, MD
Phoenix, AZ

Jeanne Skelly, MT(ASCP)
Silver Spring, MD

Philip Skerrett, MD
Philadelphia, PA

Kathryn Skitarelic, MD
Portsmouth, OH

Lawrence Smith, MBA
Providence, RI

Edwin Smith
Austin, TX

David Smith, MD
New Orleans, LA

Mary Smith, MT(ASCP)SBB
Carrollton, TX

Dennis Smith Jr., MD
Jacksonville, FL

Edward Snyder, MD
New Haven, CT

Jane Sobonya, RN
Chagrin Falls, OH

Henry Soloway, MD
Las Vegas, NV

Peter Sotus, MD
Jamestown, PA

Donald Souilliard, MD
Langhorne, PA

Cathy Spadaccini, MD
San Antonio, TX

John Spahr, MD
Waynesboro, VA

Mary Spanski, MT(ASCP)SBB
Nixa, MO

James Spencer, MD
Sarasota, FL

Glenn Spielman, MBA, MPA
Melville, NY

Steven Spitalnik, MD
Merion Station, PA

Morton Spivack, MD
New York City, NY

Linda Stai, MT(ASCP)SBB
Eau Claire, WI

Harold Stamey
Memphis, TN

Sharon E. Starr, MT(ASCP)
Torrance, CA

Mary Steece, MT(ASCP)SBB
Tampa, FL

Paul Steiner, MS
Wilmington, DE

Estelle Stetz-Marcus, MD
South Weymouth, MA

Robert Stewart, MD
Springfield, OH

Nadina Stewart, MT(ASCP)SBB
Dunwoody, GA

Leland Stewart
Lexington, VA

Harry Stiteler
Fernley, NV

Joseph Stocks, MD
Portland, ME

Joseph Stone, MD
Santa Monica, CA

Barbara Straley
Lake Success, NY

B. M. Strauch, MT(ASCP)SBB
Johannesburg, MI

Steven Strawn, MT(ASCP)SBB
Midwest City, OK

John Strickland, MT(ASCP)SBB
Fayetteville, NC

P. Strohm, MT(ASCP)SBB
Youngstown, OH

John Strunk, BS, MT(ASCP)
Valley Stream, NY

Victoria Studebaker, MT(ASCP)SBB
Brookville, OH

Olive Sturtevant, MT(ASCP)SBB
Seekonk, MA

Michelle Stux
New York, NY

Suja Subramanyan, MD
Solon, OH

William Sueoka, MD
Thousand Oaks, CA

F. William Sunderman Jr., MD
Farmington, CT

Lynn Survant
Corpus Christi, TX

Roger Svoboda, MT(ASCP)SBB
San Francisco, CA

Helen Swecker, MT(ASCP)BB
Granite City, IL

Lawrence Sylvia, MD
Deal, NJ

Ilona Szucs, MD
Milford, DE

Steven Tan, MD
Manchester, NH

Sam Tarabelsi
Medford, MA

Jo Ann Taylor, MT(ASCP)SBB
Easley, SC

Martha Taylor, MLT(ASCP)
Florence, AL

Bill Teague, MT(ASCP)SBB
Houston, TX

Lynn Teague, MT(ASCP)SBB
Houston, TX

Miguel Tellado-Fente, MD
APO New York, NY

Jeffrey Terrel, MD
Houston, TX

Ray Terry
Long Beach, CA

S. Thacker, MT(ASCP)SBB
Dallas, TX

Richard Thomas, NBA
Glendale, CA

Robert Thomas, MD
Elyria, OH

Fred Thompson
Pago Pago, AS

Cheryl Thorne, MD
Wilson, NC

Tricia Thurrell, MEd, MT(ASCP)SBB
Durham, NC

Judith Tickner, RN
Ocala, FL

John Tickner
Ocala, FL

Larry Toalson, MD
Lincoln, NE

Julia Tobin
Redondo Beach, CA

Joan Todor, MT
New York, NY

Nelson Toledo, MT
Arecibo, PR

Billie Toney
Greenville, SC

Myrna Traver, MD
Madison, WI

Eleanor Travers, MD
Potomac, MD

Robert Travis, MT(ASCP)SBB
Newark, DE

W. Tregellas, MS, MT(ASCP)SBB
Mesa, AZ

Robert Treuting, MD
Metairie, LA

Douglas Triplett, MD
Muncie, IN

Gary Troup, MD
Albuquerque, NM

Joseph Trovato Jr.
Ellicott City, MD

William Truex
Burlington, VT

Jose Trujillo
Houston, TX

Helen Turk, MT(ASCP)
Hibbing, MN

Debbie Tuten
Covington, GA

Joan Uehlinger, MD
New York, NY

Joel Umlas, MD
Cambridge, MA

Marvin Vagedes
Dayton, OH

## INDIVIDUAL SUSTAINING MEMBERS-FOREIGN

Elton Abreu, MD
Rio de Janeiro, Brazil

Katsuhiko Akashi
Osaka, Japan

Fereydoun Ala, MD
Birmingham, United Kingdom

Edward Alport, MD, FRCP(C)
Regina, Canada

Ichita Amaki, MD
Tokyo, Japan

Mitsuya Amano
Tokyo, Japan

Hitoshi Anri
Osaka, Japan

Carlo Artaz, MD
Aosta, Italy

Dott Avanzi
Firenze, Italy

Wilson Bangha, MT, FLMLS
N.W. Province, West Africa

Jannie Barmentloo, MD
Hilversum, The Netherlands

Josep Barrera, MD
Barcelona, Spain

Warren Beech
Mississauga, Canada

B. Bobji, MD
Tamil Nadu, India

Jose Bordin
Sao Paulo, Brazil

Ina Bosma-Stants, MD
Utrecht, The Netherlands

Theodorus Brouwers, MD
Deventer, The Netherlands

Samuel Brushett
Dartmouth, Canada

Cristobal Bunuel, MD
Zaragoza, Spain

Richard Cann, FIMLS
Gloucester, United Kingdom

Robert Carman, MD
Tamil Nadu, India

Ruthann Carter, RT
Edmonton, Canada

John Cash, MD
Edinburgh, United Kingdom

Damiano Castelli, MD
Lugano, Switzerland

Jean Cavalier, MD
Paris, France

Bertil Cedergren, MD
Umea, Sweden

Jean Chanas
Lyon, France

Edward Chan
Edmonton, Canada

Anna Cheng, MT
Taipei, Republic of China

Wang Ching-Shan
Kaohsiung, Republic of China

Graham Collins
Hobart, Australia

Nicole Coudurier, MD
Annehasse, France

Robert Cross
South Melbourne, Australia

P.C. Das, PhD
Groningen, The Netherlands

H.J.C. De Wit, PhD
Leeuwarden, The Netherlands

Joseph De Wolf, MD
Groningen, The Netherlands

Francine Decary, MD, PhD
Montreal, Canada

Karel J.R.L. Dergent, PhD
Turnhout, Belgium

Lanson Didier
Dampierre, France

Karl Drescher, MD
Dudingen, Switzerland

Najib Duedari, MD
Creteil, France

Enid Edwards, MD
Vancouver, Canada

Jean Emmanuel, MD
Harare, Zimbabwe

Nobuyoshi Endo, PhD
Sendai, Japan

James Faed, MB
Dunedin, New Zealand

Rafael Figueroa Hernandez, MD
Puebla, Mexico

Markus Fopp, MD
St. Gallen, Switzerland

Manuel Frey, MD
Zurich, Switzerland

Valdir Furtado, MD
Curitiba PR, Brazil

Takashi Furubo
Tokyo, Japan

Kurt Gander, PhD
Bern, Switzerland

Eileen Gard
Winnipeg, Canada

Philippe Gausset, MD
Brussels, Belgium

Karl Giger, MD
Aarau, Switzerland

Michel Girard, MD
Paris, France

Ljerka Glonar, MD, PhD
Ljubljana, Yugoslavia

Vivian Grad, ART
Edmonton, Canada

Kevin Griffin, AS
Swan Hill, Australia

Marie Griffon, MD
Versailles, France

Juan Grifols, MD
Barcelona, Spain

Kyou Sup Han, MD, PhD
Seoul, Republic of Korea

Nancy Heddle
Dundas, Canada

Helge Heisto, MD
Oslo, Norway

Patrick Herve, MD
Besancon, France

Takemichi Hirano, MT
Tokyo, Japan

Shigeru Hirose, MD
Nagoya, Japan

Ohto Hitoshi
Fukushima City, Japan

Takemitsu Hosoi, MD
Kyoto, Japan

Denys Houssay, MD
Annecy, France

Heather Hume, MD
Montreal, Canada

Rafael Hurtado
Mexico, Mexico

Yasuo Ikeda, MD
Tokyo, Japan

Shoichi Inaba, MD
Fukuoka, Japan

Chuichi Itoh, MD, PhD
Morioka, Japan

Samuel Jardinico, MD
Manila, Philippines

Frans Jehee
Rotterdam, The Netherlands

Olafur Jensson, MD
Reykjavik, Iceland

Casper Jersild, MD
Aalborg, Denmark

Jan Jorgensen, MD, PhD
Arhus N, Denmark

Renate Kaeser, MD
Mannheim, West Germany

Dietrich Kasulke, MD
Baden-Baden, West Germany

Nishino Kazuma, MT
Toyama, Japan

Timothy Keyes
Dublin, Ireland

Doo Sung Kim, MD
Ku Basan, Republic of Korea

Ki-Hong Kim, MD, PhD
Seoul, Republic of Korea

Hiroyuki Kiyokawa, MD
Fukuoka-Ken, Japan

Susan M. Knowles, MD
London, United Kingdom

Hiroaki Kobayashi
Tokyo, Japan

Pierre Kocher, MD
La Chaux-de-Fond, Switzerland

Kenichi Kojima, MD
Niigata, Japan

Irene Kontopoulou, MD
Athens, Greece

Frits Kothe, MD
Rotterdam, The Netherlands

Hara Kunio
Tohushima Prefct, Japan

Micheline Lambermont
Brussels, Belgium

Geoffrey Lane
Leeds, United Kingdom

Sheryl Law
Vancouver, Canada

Susan Leong, MD
Kowloon, Hong Kong

Dong-Tsamn Lin, MD
Taipei, Republic of China

Chen-Hui Liu, MD
Taipei, Republic of China

Antoon Lust, MD
Winksele, Belgium

Alice Maksoud
Loganlea, Australia

Bianca Manasc, MD
Montreal, Canada

Tomas Maramba Jr., MD
Manila, Philippines

Maximo Margulies, MD
Buenos Aires, Argentina

Antonio Marques
Braga, Portugal

Marilia de Marques Pedro, MD
Lisbon, Portugal

Joan Marshall
London, Canada

Wolfgang Martin, MD
Hamburg, West Germany

Uda Masayuki, PhD
Okayama, Japan

Anna Massaro, MD
Torino, Italy

Maurice Masse
Besancon, France

Valance Massiah, MD
Port-of-Spain, Trinidad and Tobago

Wolfgang Mayr, MD
Aachen, West Germany

Debra McEntyre
Wahroonga, Australia

Mark Melamed, PhD
London, United Kingdom

Michail Merianov, MD
Athens, Greece

Ruthven Mitchell, FRCP
Lanarkshire, United Kingdom

Hans Molyn
Rotterdam, The Netherlands

Fernanda Morelati, ScD
Lombardia, Italy

Seizo Murakami, MD
Tokyo, Japan

Marita Murray, MT(ASCP)
Southport, Australia

Yukio Nakamura, MD
Hirosaki, Japan

Toshie Nakase, MD
Sapporo, Japan

Jurgen Neppert
Mannehim, West Germany

Kagemitsu Ninomiya, MD
Tokyo, Japan

Gisele Novakovitch, MD
Grambois, France

Frederick O'Brien, MD
Thunder Bay, Canada

Joseph O'Sullivan
Norfolk, United Kingdom

Yoshiaki Ogawa, MD
Osaka, Japan

Yasuto Okubo, MD
Osaka, Japan

Henk Olthuis, PhD
Nijmegen, The Netherlands

Kenji Ooe, MD
Chiba, Japan

Harald Orjasaeter, MD
Oslo, Norway

Young Park, MD, PhD
Seoul, Republic of Korea

Carlos Paytubi
Barcelona, Spain

E. Pecson, MT(ASCP)
Montreal, Canada

Enrique Pedojan, RMT
Rizal, Philippines

Eduardo Perez Campos, MD
Oaxaca, Mexico

Louis Perron, MD
Outremont, Canada

Anne Pfister
Dudingen, Switzerland

Annette Poon, MD
Toronto, Canada

Fokke Posma, PhD, MD
Almelo, The Netherlands

Garriga Pujolar
Barcelona, Spain

Francisco Ramos, PhD
La Plata, Argentina

Matthias Ras
Zaandam, The Netherlands

Giorgio Reali, MD
Genova, Italy

Anthony Reppucci Jr., SBB(ASCP)
Nivelles, Belgium

George Riedler, MD
Lucerne, Switzerland

Heinz Robens
Heusenstamm, West Germany

Elizabeth Robinson, FRCPath
West Yorkshire, United Kingdom

Margaret Rogers
Thornhill, Canada

Mordecai Rosenberg
Kfar Saba, Israel

Bryan Rush, MB
Fitzroy, Australia

A.G. Russchen-Dekker, MD
Zwolle, The Netherlands

Seto Sachiko
Tokyo, Japan

V. Partha Sarathy, MB, DCP
Madras, Tamil Nad, India

Sandra Schepp
Winnipeg, Canada

Peter Schiff, MD, PhD
Parkville, Australia

Sandra Sears, MT
Nassau, Bahamas

Sadayoshi Sekiguchi, MD
Sapporo, Japan

Osaima Selim, PhD
Cario, Egypt

Marianne Senn, ART
Steffisburg, Switzerland

Otsuka Setsuko, MD, PhD
Gifu, Japan

Anita She
Toronto, Canada

Masru Shimizu, MD
Tokyo, Japan

Shoji Shinada, MD
Niigata, Japan

Wataru Shoji
Tokyo, Japan

Ivan Sobryan
Toronto, Canada

Linda Steacy, ART
Toronto, Canada

Laurette Steenssens
Borenem, Belgium

Fred Stratton, MD
Manchester, United Kingdom

Reinhard Stute, MD
Saarbruecken, West Germany

Abraham Sumoza, MD
Valencia, Venezuela

Mitsuo Suzuki
Tokyo, Japan

Mitsunobu Tanaka
Osaka, Japan

Tatsuya Tayama, MS
Tokyo, Japan

Angus Taylor, FIMLS
Lane Cove, Australia

Patti Thorne, RN
East London, Canada

Eiichi Tokunaga, MD
Tokyo, Japan

Murray Treloar, MD, FRCP
Oshawa, Canada

Heiner Trobisch, MD
Duisburg, West Germany

Clayton Tsai
Taipan, Republic of China

Karen Turner-Lienaux, RT
Halifax, Canada

Mutsuko Ujimoto
Victoria, Canada

Karel Van Den Abbeele, MD
Brussels, Belgium

Johan Van der Does, MD
The Hague, The Netherlands

Miguel Velazquez-Ferrari, MD
Guadalajara, Mexico

Frank Verbeeck, MD
Brussels, Belgium

Sylvain Verrette
Quebec, Canada

Doninique Vignon, MD
Suresnes Cedex, France

Brian Wall, FIMLS
Dublin, Ireland

Terence Walsh, MRCPath
Dublin, Ireland

Paul Waumans, MD
Brussel, Belgium

Jesus Weir, MD
Del Estado Zulia, Venezuela

Patricia Williams, RT, AIMLS
Belleville, Canada

Keiko Yamamoto
Nagoya, Japan

Naofumi Yoshioka, MD, PhD
Akita City, Japan

Helen Ziniuk
Sudbury, Canada

## INSTITUTIONAL SUSTAINING MEMBERS-UNITED STATES

655th Medical Company
APO New York, NY

Abbott Northwestern Hospital
Minneapolis, MN

Akron City Hospital
Akron, OH

Akron General Hospital
Akron, OH

Albemarle Hospital, Inc.
Elizabeth City, NC

Alexandria Hospital
Alexandria, VA

Alleghany Regional Hospital
Clifton Forge, VA

Allegheny General Hospital
Pittsburgh, PA

Altoona Hospital
Altoona, PA

Anaheim Memorial Hospital
Anaheim, CA

Anne Arundel General Hospital
Annapolis, MD

American Red Cross Blood Services
Nashville, TN

American Red Cross Blood Services
San Juan, PR

American Red Cross Blood Services
Dedham, MA

American Red Cross Blood Services
St. Louis, MO

American Red Cross Blood Services
Cleveland, OH

American Red Cross Blood Services
Norfolk, VA

Arizona Health Sciences Center
Tucson, AZ

Arkansas Methodist Hospital
Paragould, AR

Asbury-Salina Regional Medical Center
Salina, KS

Ashe Memorial Hospital, Inc.
Jefferson, NC

Associated Pathologist Laboratories
Las Vegas, NV

Atlantic City Medical Center
Atlantic City, NJ

Baldwin County Hospital
Milledgeville, GA

Baltimore Rh Typing Laboratory, Inc.
Baltimore, MD

Banco De Sangre De Serv Mutos
Hato Rey, PR

Baptist Medical Center
Kansas City, MO

Baptist Medical Center
San Antonio, TX

Bay Harbor Hospital
Harbor City, CA

Bayfront Medical Center
St. Petersburg, FL

Medical University of South Carolina
Charleston, SC

Beloit Hospital
Beloit, WI

Beth Israel Hospital
Passaic, NJ

Beth Israel Medical Center
New York, NY

Bethany Methodist Hospital
Chicago, IL

Bethesda Memorial Hospital
Boynton Beach, FL

Beverly Hospital
Montebello, CA

Binghamton General Hospital
Binghamton, NY

Blood Bank of Delaware, Inc.
Newark, DE

Blood Bank of the Redwoods
Santa Rosa, CA

Blood Donors, Inc.
Duluth, MN

Bloomsburg Hospital
Bloomsburg, PA

Blount Memorial Hospital
Maryville, TN

Bluefield Regional Medical Center
Bluefield, WV

Bogalusa Community Medical Center
Bogalusa, LA

Boone County Hospital
Boone, IA

Boulder Community Hospital
Boulder, CO

Bridgeport Hospital
Bridgeport, CT

Bristol Hospital
Bristol, CT

Brokaw Hospital Laboratory
Normal, IL

Bronson Methodist Hospital
Kalamazoo, MI

Brookside Hospital
San Pablo, CA

Broward General Medical Center
Ft. Lauderdale, FL

Brownsville General Hospital
Brownsville, PA

Cabarrus Memorial Hospital
Concord, NC

Cape Cod Hospital
Hyannis, MA

Carolina-Georgia Blood Center
Greenville, SC

Carraway Methodist Medical Center
Birmingham, AL

Carter Blood Center
Ft. Worth, TX

Casa Grande Regional Medical Center
Casa Grande, AZ

Catawba Memorial Hospital
Hickory, NC

Central Blood Bank
Pittsburgh, PA

Central Florida Blood Bank, Inc.
Orlando, FL

Central Kentucky Blood Center
Lexington, KY

Central Mesaba Medical Center
Hibbing, MN

Central Texas Regional Blood Center
Austin, TX

Centreville Township Hospital
East St. Louis, IL

Charleston Area Medical Center
Charleston, WV

Chester County Hospital
West Chester, PA

Chestnut Hill Hospital
Philadelphia, PA

Children's Hospital Medical Center
Akron, OH

Children's Hospital National Medical Center
Washington, DC

Children's Hospital of Philadelphia
Philadelphia, PA

Chilton Memorial Hospital
Pompton Plains, NJ

Christian Hospital Northeast
St. Louis, MO

Cleveland Clinic Foundation
Cleveland, OH

Cobb General Hospital
Austell, GA

Coffee Memorial Blood Center
Amarillo, TX

Columbia Hospital
Columbia, PA

Columbus Hospital
Chicago, IL

Comanche County Memorial Hospital
Lawton, OK

Community Hospital of Indianapolis
Indianapolis, IN

Community Hospital of Monterey Penin
Monterey, CA

Community Hospital of Roanoke Valley
Roanoke, VA

Community Blood Center of Louisiana, Inc.
Baton Rouge, LA

Community Blood Bank, Inc.
St. Petersburg, FL

Community Blood Center
Dayton, OH

Community Hospital of Schoharie
Cobleskill, NY

Community Hospital
Williamsport, IN

Community Hospital
Munster, IN

Cooley's Anemia Foundation
New York, NY

Corry Memorial Hospital
Corry, PA

Covenant Medical Center
Champaign, IL

Crittenton Hospital-Rochester Unit
Rochester, MI

Danbury Hospital
Danbury, CT

Day Kimball Hospital
Putnam, CT

Deaconess Hospital
St. Louis, MO

Decatur County Memorial Hospital
Greensburg, IN

Delaware Valley Medical Center
Langhorne, PA

Delray Community Hospital
Delray Beach, FL

Detroit Receiving Hospital
Detroit, MI

Diagnostic Lab Services, Inc.
Honolulu, HI

Doctors Memorial Hospital
Spartanburg, SC

Doctors' Hospital
Coral Gables, FL

Earl K. Long Memorial Hospital
Baton Rouge, LA

East Orange General Hospital
East Orange, NJ

East Pasco Medical Center
Zephyrhills, FL

East Pointe Hospital
Lehigh Acres, FL

Edgewater Hospital
Chicago, IL

Elks Blood Bank
Danville, IL

Elliott White Springs Memorial Hospital
Lancaster, SC

Emanual Hospital
Portland, OR

Episcopal Hospital
Philadelphia, PA

Erlanger North Hospital
Chattanooga, TN

Eskaton American River Health Care
Carmichael, CA

Fairbanks Memorial Hospital
Fairbanks, AK

Fargo Clinic St. Luke's Hospital
Fargo, ND

Firelands Community Hospital
Sandusky, OH

Fishermen's Hospital
Marathon, FL

Florida Association of Blood Banks
Orlando, FL

Florida Georgia Blood Alliance
Jacksonville, FL

Floyd Memorial Hospital
New Albany, IN

Foster G. McGaw Hospital
Maywood, IL

Francis Scott Key Medical Center
Baltimore, MD

Frankford Hospital
Philadelphia, PA

Franklin Foundation Hospital
Franklin, LA

Freehold Area Hospital
Freehold, NJ

Ft. Hamilton-Hughes Memorial Hospital
Hamilton, OH

Fulton County Blood Bank
Gloversville, NY

Gaston Memorial Hospital, Inc.
Gastonia, NC

George Washington University Hospital
Washington, DC

Georgetown University Hospital
Washington, DC

Georgia Baptist Medical Center
Atlanta, GA

Glendale Adventist Medical Center
Glendale, CA

Gnaden Huetten Memorial Hospital
Lehighton, PA

Goddard Memorial Hospital
Stoughton, MA

Good Samaritan Hospital
Lebanon, PA

Good Samaritan Hospital
West Islip, NY

Good Samaritan Hospital
Puyallup, WA

Good Samaritan Hospital
Vincennes, IN

Good Samaritan Hospital
San Jose, CA

Good Samaritan Medical Center
Zanesville, OH

Good Shepherd Medical Center
Longview, TX

Grafton City Hospital
Grafton, WV

Greater Baltimore Medical Center
Baltimore, MD

Greater Metro Community Blood Service, Inc.
New York, NY

Greenville Memorial Hospital
Greenville, SC

Gulf Area Regional Blood Bank, Inc.
Venice, FL

Gulf Coast Regional Blood Center
Houston, TX

Hamilton Medical Center
Dalton, GA

Hamot Medical Center
Erie, PA

Harlem Hospital Center
New York, NY

Harper-Grace Hospital
Detroit, MI

Harrisburg Hospital
Harrisburg, PA

Hays Community Blood Bank
Hays, KS

HCA L.W. Blake Hospital
Bradenton, FL

HCA Oak Hill Hospital
Spring Hill, FL

Heartland Health Systems
St. Joseph, MO

HemaCare Corporation
Sherman Oaks, CA

Hendersonville Community Hospital
Hendersonville, TN

Hendricks County Hospital
Danville, IN

Henry General Hospital
Stockbridge, GA

Highland General Hospital
Oakland, CA

Holland Community Hospital
Holland, MI

Holy Cross Hospital of Silver Spring
Silver Spring, MD

Holy Cross Hospital
Chicago, IL

Holy Cross Hospital
Detroit, MI

Holy Spirit Hospital
Camp Hill, PA

Holzer Medical Center
Gallipolis, OH

Homewood Hospital Center
Baltimore, MD

Hospital de Damas
Ponce, PR

Hospital for Special Surgery
New York, NY

Houlton Regional Hospital
Houlton, ME

Howard University Hospital
Washington, DC

Huey P. Long Memorial Hospital
Pineville, LA

Humana Hospital
Huntington Beach, CA

Humana Hospital
Bluefield, WV

Humana Hospital
Baytown, TX

Humana Hospital
Newnan, GA

Humana Hospital
Oakdale, LA

Humana Hospital
Overland Park, KS

Humana Hospital
Las Vegas, NV

Humana Hospital
Louisville, KY

Humana Hospital
Canoga Park, CA

Humana Women's Hospital
San Antonio, TX

Hunt Memorial Hospital
Danvers, MA

Hunterdon Medical Center
Flemington, NJ

Hutcheson Medical Center
Ft. Oglethorpe, GA

Illinois Masonic Medical Center
Chicago, IL

Imperial Point Hospital
Ft. Lauderdale, FL

Indian Path Hospital
Kingsport, TN

Indiana University Hospital
Indianapolis, IN

Ingham Medical Center
Lansing, MI

Irwin Army Hospital
Ft. Riley, KS

Jay County Hospital
Portland, IN

Jefferson Memorial Hospital
Ranson, WV

Jennie Edmundson Memorial Hospital
Council Bluffs, IA

Jersey City Medical Center
Jersey City, NJ

Jersey Shore Medical Center
Neptune, NJ

John F. Kennedy Memorial Hospital
Stratford, NJ

John F. Kennedy Memorial Hospital
Philadelphia, PA

Johnston Memorial Hospital
Abingdon, VA

Kaiser Foundation Hospital
Oakland, CA

Kaiser Permanente Medical Center
Redwood City, CA

Kaiser Permanente Medical Center
Walnut Creek, CA

Kaiser Permanente Medical Center
Harbor City, CA

Kaiser Permanente Medical Center
Bellflower, CA

Kaiser Permanente Medical Center
Panorama City, CA

Kaiser Permanente Medical Center
Los Angeles, CA

Kaweah Delta District Hospital
Visalia, CA

Kennedy Memorial Hospital
Cherry Hill, NJ

Kenner Army Community Hospital
Ft. Lee, VA

Kennestone Hospital
Marietta, GA

Kenneth Norris Jr. Cancer Hospital
Los Angeles, CA

Kent General Hospital
Dover, DE

King's Daughters Hospital
Staunton, VA

Kings County Hospital Center
Brooklyn, NY

Kissimmee Memorial Hospital
Kissimmee, FL

Knox County General Hospital
Barbourville, KY

LBJ Tropical Medical Center
Pago Pago, AS

Central General Hospital
Plainview, NY

Labette County Medical Center
Parsons, KS

Lake Charles Memorial Hospital
Lake Charles, LA

Lake City Medical Center
Lake City, FL

Lake Shore Hospital
Lake City, FL

Lake Wales Hospital
Lake Wales, FL

Lakewood Hospital
Tacoma, WA

Lancaster Fairfield Community Hospital
Lancaster, OH

Lankenau Hospital
Philadelphia, PA

Laporte Hospital, Inc.
Laporte, IN

Lawnwood Medical Center
Ft. Pierce, FL

Le Bonheur Children's Medical Center
Memphis, TN

Lee Memorial Hospital
Ft. Myers, FL

Leesburg Regional Medical Center
Leesburg, FL

Lewis-Gale Hospital
Salem, VA

Lewistown Hospital
Lewistown, PA

LifeSource
Glenview, IL

Logan General Hospital
Logan, WV

Lorain County Blood Bank, Inc.
Elyria, OH

Los Gatos Community Hospital
Los Gatos, CA

Loudoun Memorial Hospital
Leesburg, VA

Louisiana Blood Center
Shreveport, LA

Luther Hospital
Eau Claire, WI

Malden Hospital
Malden, MA

Manatee County Blood Bank, Inc.
Bradenton, FL

Margaret R. Pardee Memorial Hospital
Hendersonville, NC

Marion County Blood Bank
Ocala, FL

Marquette General Hospital
Marquette, MI

Mary Immaculate Hospital
Newport News, VA

Maryview Hospital
Portsmouth, VA

Mayo Clinic
Rochester, MN

McCullough-Hyde Memorial Hospital
Oxford, OH

McDonough County District Hospital
Macomb, IL

McKay-Dee Hospital Center
Ogden, UT

Medical Center East
Birmingham, AL

Medical Center Hospital
Chillicothe, OH

Medical Center of Central Georgia
Macon, GA

Medical Center of Delaware, Inc.
Wilmington, DE

Medical Center of Houston County
Warner Robins, GA

Medical Plaza Hospital
Ft. Worth, TX

Memorial Hospital for Cancer & Allied Diseases
New York, NY

Memorial Blood Center of Minneapolis
Minneapolis, MN

Memorial Hospital of Jacksonville
Jacksonville, FL

Memorial Hospital
Manitowoc, WI

Memorial Hospital
Fremont, OH

Memorial Hospital
Chattanooga, TN

Memorial Hospital at Easton
Easton, MD

Memorial Mission Hospital
Asheville, NC

Mercer Medical Center
Trenton, NJ

Mercy Catholic Medical Center
Darby, PA

Mercy Hospital
Portland, ME

Mercy Hospital of New Orleans
New Orleans, LA

Mercy Hospital of Watertown
Watertown, NY

Mercy Medical Center
Coon Rapids, MN

Mercy Medical Center
Springfield, OH

Mercy San Juan Hospital
Carmichael, CA

Methodist Hospital of Southern California
Arcadia, CA

Methodist Hospital of Sacramento
Sacramento, CA

Methodist Hospital
New Orleans, LA

Methodist Hospital
Gary, IN

Methodist Hospital of Indiana
Indianapolis, IN

Metropolitan Hospital
Grand Rapids, MI

Mid-Island Hospital
Bethpage, NY

Milford-Whitinsville Regional Hospital
Milford, MA

Milton Hospital
Milton, MA

Mississippi Blood Services
Jackson, MS

Mississippi Valley Regional Blood Center
Davenport, IA

Monadnock Community Hospital
Peterborough, NH

Moncrief Army Community Hospital
Ft. Jackson, SC

Monmouth Medical Center
Long Branch, NJ

Mount Carmel Medical Center
Pittsburgh, KS

Mount Sinai Medical Center
Cleveland, OH

Mount Sinai Hospital
Philadelphia, PA

Muscatine General Hospital
Muscatine, IA

Natividad Medical Center
Salinas, CA

Nebraska Methodist Hospital
Omaha, NE

Nesbitt Memorial Hospital
Kingston, PA

New York Blood Center
New York, NY

Newark Beth Israel Medical Center
Newark, NJ

North Miami General Hospital
North Miami, FL

North Pennsylvania Hospital
Lansdale, PA

Northeast Medical Center
Humble, TX

Northern California Community Blood Bank
Eureka, CA

Northlake Regional Medical Center
Tucker, GA

Northside Hospital
Atlanta, GA

Northwest Florida Blood Center
Pensacola, FL

Norwalk Hospital
Norwalk, CT

Norwegian American Hospital
Chicago, IL

Norwood Hospital
Norwood, MA

Nueces County Medical Society Community Blood Bank
Corpus Christi, TX

Oregon Medical Laboratories
Eugene, OR

Osteopathic Medical Center of Philadelphia
Philadelphia, PA

Our Lady of Lourdes Regional Medical Center
Lafayette, LA

Owensboro Daviess County Hospital
Owensboro, KY

Palisades General Hospital
North Bergen, NJ

Palmetto General Hospital
Hialeah, FL

Palms West Hospital
Loxahatchee, FL

Parkview Memorial Hospital
Brunswick, ME

Pawating Hospital
Niles, MI

Peninsula General Hospital Medical Center
Salisbury, MD

Peninsula Memorial Blood Bank
Burlingame, CA

Pennsylvania Hospital
Philadelphia, PA

Personal Blood Storage
Memphis, TN

Perth Amboy General Hospital
Perth Amboy, NJ

Phoenixville Hospital
Phoenixville, PA

Polk General Hospital
Bartow, FL

Poly Medical Center of Harrisburg
Harrisburg, PA

Potomac Hospital
Woodbridge, VA

Pottsville Hospital & Warner Clinic
Pottsville, PA

Presbyterian-University of Pennsylvania Medical Center
Philadelphia, PA

Prince William Hospital
Manassas, VA

Providence Hospital
Columbia, SC

Providence Hospital
Washington, DC

Providence Medical Center
Portland, OR

Quakertown Hospital Association
Quakertown, PA

Rancocas Valley Hospital
Willingboro, NJ

Rappahannock General Hospital
Kilmarnock, VA

Redington-Fairview General Hospital
Skowhegan, ME

Regional Medical Center of Memphis
Memphis, TN

Rhode Island Medical Center General Hospital
Cranston, RI

Richland Memorial Hospital
Columbia, SC

Richmond Metropolitan Blood Services, Inc.
Richmond, VA

Riverside Community Hospital
Riverside, CA

Riverside Hospital
Newport News, VA

Robert Packer Hospital
Sayre, PA

Robinson Memorial Hospital
Ravenna, OH

Rose Medical Center
Denver, CO

Rumford Community Hospital
Rumford, ME

Rutherford Hospital, Inc.
Rutherfordton, NC

Sacred Heart Hospital
Cumberland, MD

Sacred Heart Hospital
Pensacola, FL

Sacred Heart Hospital
Norristown, PA

Sacred Heart Medical Center
Chester, PA

Samaritan Health Center
Detroit, MI

San Diego Physicians & Surgeons Hospital
San Diego, CA

San Juan Regional Medical Center
Farmington, NM

Santa Barbara Cottage Hospital
Santa Barbara, CA

Santa Rosa Memorial Hospital
Santa Rosa, CA

Santa Teresa Community Hospital
San Jose, CA

Scripps Clinic & Research Foundation
La Jolla, CA

Shadyside Hospital
Pittsburgh, PA

Shawnee Mission Medical Center
Shawnee Mission, KS

Shore Memorial Hospital
Somers Point, NJ

Sibley Memorial Hospital
Washington, DC

Sierra Medical Center
El Paso, TX

Sinai Hospital of Detroit
Detroit, MI

Sioux Valley Hospital
Sioux Falls, SD

Slidell Memorial Hospital
Slidell, LA

SmithKline Bio/Science Laboratories
New Orleans, LA

South Bend Medical Foundation
South Bend, IN

South Community Hospital
Oklahoma City, OK

South County Hospital
Wakefield, RI

South Florida Baptist Hospital
Plant City, FL

South Highland Hospital
Birmingham, AL

South Hills Health Systems
Pittsburgh, PA

South Nassau Communities Hospital
Oceanside, NY

South Shore Hospital & Medical Center
Miami Beach, FL

South Shore Hospital
South Weymouth, MA

South Texas Regional Blood Bank
San Antonio, TX

Southeast Baptist Hospital
San Antonio, TX

Southeast Iowa Blood Bank
Ottumwa, IA

Southern Maine Medical Center
Biddeford, ME

Spartanburg Blood Bank, Inc.
Spartanburg, SC

St. Ann's Hospital
Westerville, OH

St. Anthony Hospital
Rockford, IL

St. Anthony Hospital
Louisville, KY

St. Anthony's Hospital
St. Petersburg, FL

St. Barnabas Hospital
Bronx, NY

St. Bernard Hospital
Chicago, IL

St. Cloud Hospital
St. Cloud, MN

St. Elizabeth Hospital Medical Center
Lafayette, IN

St. Elizabeth Hospital Medical Center
Youngstown, OH

St. Elizabeth Medical Center
Covington, KY

St. Elizabeth's Hospital
Belleville, IL

St. Frances Cabrini Hospital
Alexandria, LA

St. Frances X. Cabrini Hospital
Chicago, IL

St. Francis Hospital
Miami Beach, FL

St. Francis Hospital
Poughkeepsie, NY

St. Francis Medical Center
Honolulu, HI

St. Francis Medical Center
Lynwood, CA

St. Francis Medical Center
La Crosse, WI

St. Francis Xavier Hospital
Charleston, SC

St. John's Riverside Hospital
Yonkers, NY

St. Joseph Hospital & Health Care
Lancaster, PA

St. Joseph Hospital
Stamford, CT

St. Joseph Hospital
Tacoma, WA

St. Joseph Hospital
Houston, TX

St. Joseph Hospital
Mitchell, SD

St. Joseph Hospital
Flint, MI

St. Joseph Hospital
Port Charlotte, FL

St. Joseph Hospital
Chicago, IL

St. Joseph Hospital
Elgin, IL

St. Joseph Hospital
Nashua, NH

St. Joseph Hospital East
Mt. Clemens, MI

St. Joseph Medical Center
Wichita, KS

St. Joseph Mercy Hospital
Mason City, IA

St. Joseph Mercy Hospital
Ann Arbor, MI

St. Joseph Northeast Heights
Albuquerque, NM

St. Joseph's Hospital
Stockton, CA

St. Joseph's Hospital
Huntingburg, IN

St. Joseph's Hospital
Asheville, NC

St. Joseph's Hospital
Tucson, AZ

St. Joseph's Hospital
Buckhannon, WV

St. Joseph's Hospital
Philadelphia, PA

St. Joseph's Medical Center
Yonkers, NY

St. Joseph's Medical Center
Brainerd, MN

St. Jude Medical Center
Kenner, LA

St. Luke Hospital of Campbell County
Ft. Thomas, KY

St. Luke Hospital Laboratory
Pasadena, CA

St. Luke's Hospital
Maumee, OH

St. Luke's Hospital
Middleboro, MA

St. Mary & Elizabeth Hospital
Louisville, KY

St. Mary Hospital
Langhorne, PA

St. Mary Medical Center
Long Beach, CA

St. Mary's Health Center
Jefferson City, MO

St. Mary's Hospital & Health Center
Tucson, AZ

St. Mary's Hospital of Brooklyn
Brooklyn, NY

St. Mary's Hospital
Huntington, WV

St. Michael's Medical Center
Newark, NJ

St. Peter's Medical Center
New Brunswick, NJ

St. Vincent Health Center
Erie, PA

St. Vincent Hospital & Health Care
Indianapolis, IN

St. Vincent Hospital
Green Bay, WI

St. Vincent Hospital Blood Bank
Worcester, MA

St. Vincent Medical Center
Los Angeles, CA

St. Vincent's Medical Center
Bridgeport, CT

Stamford Hospital
Stamford, CT

State University Hospital-Downstate Medical Center
Brooklyn, NY

Staten Island Hospital
Staten Island, NY

Stephen's Memorial Hospital
Norway, ME

Stewart Blood Center, Inc.
Tyler, TX

Sumter Regional Hospital
Americus, GA

Super-Douglas County Community Blood Bank
Superior, WI

Sutter General Hospital
Sacramento, CA

Suwannee County Hospital
Live Oak, FL

Sylvan N. Goldman Center
Oklahoma City, OK

Tacoma General Hospital
Tacoma, WA

Tarrant County Hospital
Ft. Worth, TX

Terrebonne General Hospital
Houma, LA

Texoma Regional Blood Center
Sherman, TX

The Allentown Hospital
Allentown, PA

The Brigham & Women's Hospital
Boston, MA

The Burbank Hospital Blood Bank
Fitchburg, MA

The Faxton-Children's Hospital
Utica, NY

The Methodist Hospital
Houston, TX

The Mount Vernon Hospital
Alexandria, VA

The New York Hospital
New York, NY

The Regional Medical Center
Orangeburg, SC

The Rhode Island Blood Center
Providence, RI

The San Bernardino Community Hospital
San Bernardino, CA

Tift General Hospital
Tifton, GA

Toledo Hospital
Toledo, OH

Trinity Lutheran Hospital
Kansas City, MO

Trinity Memorial Hospital
Cudahy, WI

Truman Medical Center
Kansas City, MO

Two Rivers Community Hospital
Two Rivers, WI

Ukiah General Hospital
Ukiah, CA

Union Hospital Association
Dover, OH

Union Memorial Hospital, Inc.
Monroe, NC

Uniontown Hospital
Uniontown, PA

United Hospitals Medical Center
Newark, NJ

Unity Hospital
Fridley, MN

University of Medicine & Dentistry of New Jersey
Newark, NJ

University Hospital of Cleveland
Cleveland, OH

University of California Medical Center
San Francisco, CA

University of Chicago
Chicago, IL

University of Illinois Hospital
Chicago, IL

University of Utah Medical Center
Salt Lake City, UT

US Army Bassett Community Hospital
Ft. Wainwright, AK

US Army Fitzsimons Medical Center
Denver, CO

US Army Hospital Berlin
APO New York, NY

US Army Letterman Medical Center
San Francisco, CA

US Army Lyster Hospital
Ft. Rucker, AL

US Army Martin Community Hospital
Ft. Benning, GA

US Army Noble Community Hospital
Ft. McClellan, AL

US Army Reynolds Community Hospital
Ft. Sill, OK

US Army Services Blood Bank Center
Ft. Ord, CA

US Army Womack Community Hospital
Ft. Bragg, NC

US Health of Southern Ohio
Portsmouth, OH

US Naval Hospital
Bremerton, WA

US Naval Hospital
Great Lakes, IL

US Naval Hospital
Newport, RI

US Naval Hospital
Oakland, CA

US Naval Hospital
FPO Seattle, WA

US Naval Hospital
San Diego, CA

USAF 857th Strategic Hospital
Minot AFB, ND

USAF Academy Hospital
USAF Academy, CO

USAF David Grant Medical Center
Travis AFB, CA

USAF Hospital
Chanute AFB, IL

USAF Hospital Lajes
APO New York, NY

USAF Hospital
Little Rock AFB, AR

USAF Hospital
Plattsburgh AFB, NY

USAF Medical Center
Dayton, OH

USAF Regional Hospital
Carswell AFB, TX

USAF Regional Hospital
Maxwell AFB, AL

USAF Wilford Hall Medical Center
Lackland AFB, TX

VA John Cochran Medical Center
St. Louis, MO

VA Lakeside Medical Center
Chicago, IL

VA Medical Center
Alexandria, LA

VA Medical Center
Allen Park, MI

VA Medical Center
Ann Arbor, MI

VA Medical Center
Biloxi, MS

VA Medical Center
Boston, MA

VA Medical Center
Bronx, NY

VA Medical Center
Dayton, OH

VA Medical Center
Fayetteville, NC

VA Medical Center
Gainesville, FL

VA Medical Center
Houston, TX

VA Medical Center
Livermore, CA

VA Medical Center
Manchester, NH

VA Medical Center
Martinez, CA

VA Medical Center
Muskogee, OK

VA Medical Center
Omaha, NE

VA Medical Center
Oteen, NC

VA Medical Center
Philadelphia, PA

VA Medical Center
Portland, OR

VA Medical Center
Salisbury, NC

VA Medical Center
San Juan, PR

VA Medical Center
Shreveport, LA

VA Medical Center
West Roxbury, MA

VA Medical Center
West Haven, CT

VA West Side Hospital
Chicago, IL

VA-James A. Haley Hospital
Tampa, FL

VA-Royal C. Johnson Memorial Hospital
Sioux Falls, SD

Valley Children's Hospital
Fresno, CA

Valley Presbyterian Hospital
Van Nuys, CA

Virginia Beach General Hospital
Virginia Beach, VA

Virginia Commonwealth
Richmond, VA

Walker Memorial Hospital
Avon Park, FL

Walker Regional Medical Center, Inc.
Jasper, AL

Walson Army Community Hospital
Ft. Dix, NJ

Warren General Hospital
Warren, PA

Washington County Hospital Association
Hagerstown, MD

Washington Hospital Center
Washington, DC

Washington-St. Tammany Charity Hospital
Bogalusa, LA

Washoe Medical Center Laboratory
Reno, NV

Waterbury Hospital
Waterbury, CT

Wausau Hospital Center
Wausau, WI

Wayne General Hospital
Wayne, NJ

Wentworth Douglass Hospital
Dover, NH

West Hudson Hospital
Kearny, NJ

West Jefferson Medical Center
Marrero, LA

West Tennessee Regional Blood Center, Inc.
Jackson, TN

Wheeling Hospital
Wheeling, WV

Williamsburg Community Hospital
Williamsburg, VA

Williamson County Hospital
Franklin, TN

Wilson Memorial Hospital
Wilson, NC

Winchester Hospital
Winchester, MA

Winchester Medical Center
Winchester, VA

William J. Bryan Dorn Veterans Hospital
Columbia, SC

Worcester Hahnemann Hospital
Worcester, MA

West Virginia University Hospital
Morgantown, WV

Zurbrugg Memorial Hospital
Riverside, NJ

## INSTITUTIONAL SUSTAINING MEMBERS - FOREIGN

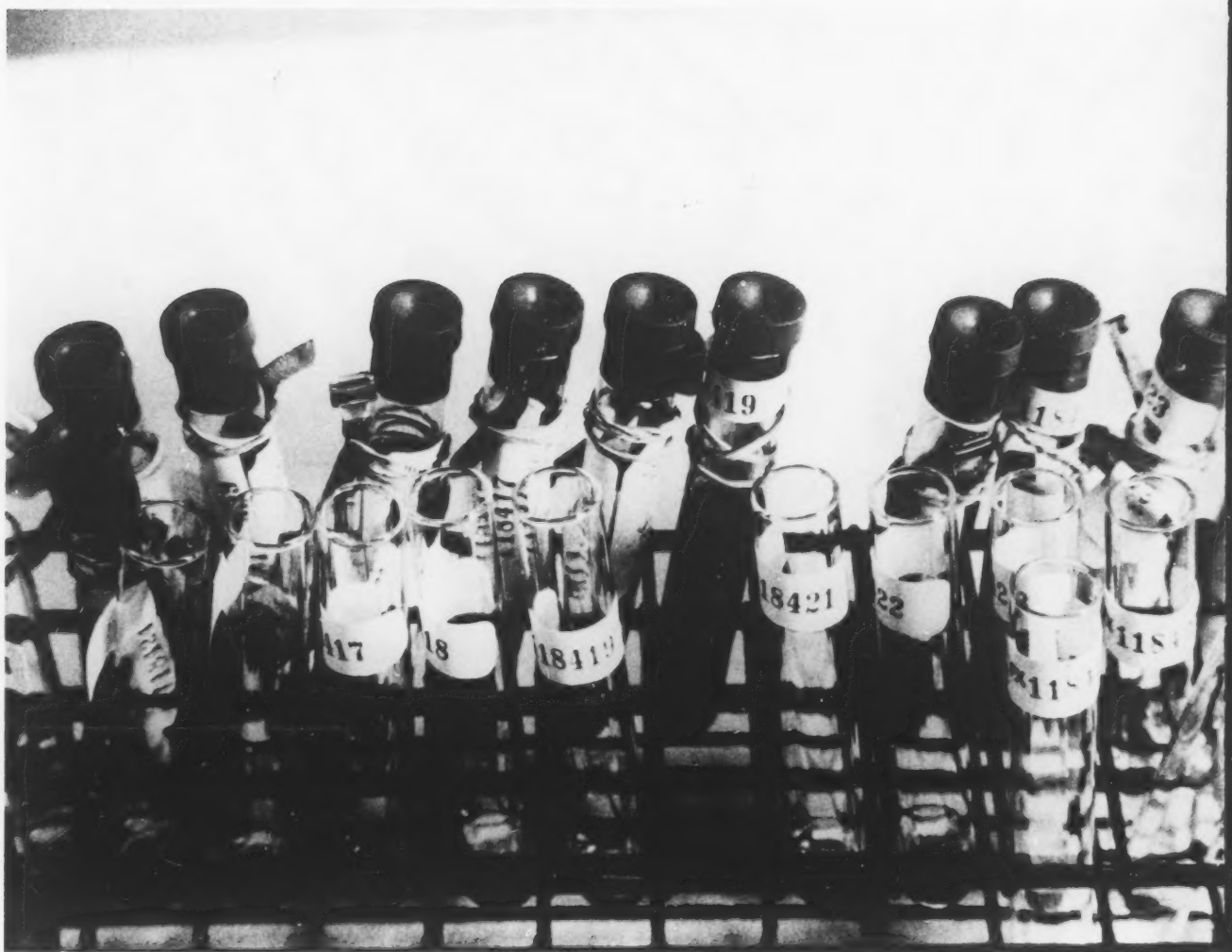
Blood Services Foundation
Taipei, Republic of China

Dhahran Health Center
Dhahran, Saudi Arabia

Institute of Medical and Veterinary Science
Adelaide, Australia

Melbourne Diagnostic Pathology
Collingwood, Australia

Regional Red Cross Blood Bank
Groningen, The Netherlands



**American Association of Blood Banks**
**1117 North 19th Street, Suite 600**
**Arlington, Virginia 22209**
**(703) 528-8200**

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